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Case Studies and Theory Development in the Social Sciences

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BCSIA Studies in International Security

MIT Press
Cambridge, Massachusetts

London, England

What is the utility and role of different means for advancing one's interests?

Integration of the Five Design Tasks

lated and interdependent. For example, the way in which whole. The researcher should keep in mind that these tasks The five design tasks should be viewed as constituting ah integrated performed should be consistent with the specification of Task One. Simiguided by the decisions made for Tasks One, Two, and Th the standpoint of the determinations made for Tasks One and Two. And work developed in Task Four must be appropriate and serviceable from larly, both the selection of cases in Task Three and the theoretical framefinally, the identification of data requirements in Task Five must be Task Two is are interre-

erable iteration and respecification of the various tasks may be necessary complished on the first try. A good design does not come easily. Considing a preliminary examination of a variety of cases before finalizing asneed to gain familiarity with the phenomenon in question before a satisfactory research design is achieved. The researcher may Yet a satisfactory integration of the five tasks usually cannot be ac-

pects of the design. likely to remain imperfect—and this may not be apparent until the invescase studies will have to be redone. In drawing conclusions from the ther work and redesigning the study, even if this means that some of the fects are sufficiently serious, the researcher should consider halting furtigator is well into phase two or even phase three of the sthdy. If these destudy, the researcher (or others who evaluate it) may be able to gain some useful lessons for a better design of a new study of the problem. $^{\it ZI}$ Despite the researcher's best efforts, the formulation $\flat f$ the design is

Chapter 5

Case Studies Phase Two: Carrying Out the

will use case findings to illuminate the research objectives of the study. general questions. These answers—the product of phase two—then consearcher to analyze each case in a way that will provide "answers" to the stitute the data for the third phase of research, in which the investigator to ask of each of the cases to be studied in phase two-allows the re-The fifth task in a research design—the formulation of general questions

often leads to the construction of a chronological narrative that helps step of immersing oneself in the case, known as "soaking and poking," of the case.2 literature and interview data on the case and its context. This preliminary ready intimately familiar is to gather the most easily accessible academic both the researcher and subsequent readers understand the basic outlines Usually one's first step in studying a case with which one is not al-

[&]quot;Pedagogical Note to Parts Two and Three." For additional discussion of the critical importance of research design, see the

Theories of Organizational Decision Making," in Robert F. Coulam and Richard A. Smith, eds., Advances in Information Processing in Organizations, Vol. 2 (Greenwich, Conn.: JAI Press, 1985), pp. 21-58. Gordon Lauren, ed., Diplomacy: New Approaches in Theory, History, and Policy (New and Theory Development [The Method of Structured, Focused Comparison," in Paul chological Models in International Politics (Boulder, Colo.: Westview Press, 1979) Cognitive Beliefs and Decision Making Behavior," in Lawrence S. Falkowski, ed., Psy-York: Free Press, 1979), pp. 3-68; Alexander L. George, "The Causal Nexus Between pp. 95–124; and Alexander L. George and Timothy J. McKeown, "Case Studies and This chapter draws on earlier publications by Alexander L. George, "Case Studies

^{2.} An interesting example of "soaking and poking" and a description of how it mixes inductive and deductive reasoning is found in Richard F. Fenno's *Homestyle* (Boston: Little, Brown, 1978). As noted in the review of his study in the Appendix, sign evolved as he undertook subsequent interviews with members of Congress. Fenno gives a detailed reconstruction of how his interview questions and research de-

criteria employed for "scoring" the variables so as to provide a basis for inquiry. (If appropriate, the researcher may be able to quantify and scale variables in some fashion.) The researcher should always articulate the dependent variables in a case through standard procedures of historical task of case study analysis, establishing the values of independent and inter-coder reliability. After a period of "soaking and poking," the researcher turns to the

a matter of applying an orthodox quasi-experimental design.3 Social scievidence that may be available; using multiple weak interences rather entists performing case studies will need to familiarize themselves with the search are not easily summarized by a few simple search rules.4 dures for searching through large masses of data when the objectives of than single strong inferences to buttress conclusions; developing procecase is embedded, the special difficulties presented by the craft of the historian's trade-learning, for the context in which the case. This is a matter of detective work and historical analysis rather than Next, the researcher develops explanations for the dutcome of each rarious kinds of

making process while underestimating the complexity and the multitude authors, and a tendency to overestimate the rationality of the policyencounter when working with a variety of primary and secondary matesearcher's theoretical framework. We then turn to issues nation for a case into an explanation that adequately analyzed a given case, and the task of transforming a descriptive explainvolved in weighing explanations offered by other researchers who have focus on the provisional nature of case explanations, and the challenges of interests that may be at play. Scholars face numerous issues in assessrials. Notable issues with secondary sources include the biases of their that researchers make their methods as transparent as possible to the ing the evidentiary value of primary sources. Finally, weldescribe some of the tasks faced by those who critically read others' case studies, and urge This chapter provides advice on these topics. The fit that researchers st three sections reflects the re-

The Provisional Character of Case Explanations

acter. Therefore, the theoretical conclusions drawn findings (in phase three) will also be provisional. The explanations pro-Case explanations must always be considered to be of alprovisional charfrom case study

would also be necessary if new historical data bearing on the cases berelevant data or misunderstood its significance, failed to consider an imanother ground—for example, the original research may have overlooked come available at a later date and lead to a successful challenge of earlier for any theory that has been developed or tested. Such a reassessment cessfully challenged, the researcher will have to reassess the implications portant rival hypothesis, and so forth. If case explanations are later sucvided by the case writer may be challenged by other scholars on one or

eralizations for which a measure of validity can be claimed on the basis of tent that alternative explanations are considered and found to be less conexisting studies. The plausibility of an explanation is enhanced to the extent with the available data and if they can be supported by relevant genstudies. These causal interpretations gain plausibility if they are consiswhich differs from the mode of causal inference in statistical-correlational the investigator employs the historian's method of causal imputation, sistent with the data, or less supportable by available generalizations. In seeking to formulate an explanation for the outcome in each case,

the investigator's commitment to a particular theory or hypothesis. challenge is likely if the reader believes that case selection was biased by providing the basis for a suspicion, justified or not, that he or she has sidered alternative explanations for the case outcome in order to avoid "imposed" a favored theory or hypothesis as the explanation. Such a An investigator must demonstrate that he or she has seriously con-

The Problem of Competing Explanations

types of explanation stemming, for example, from historiographical ispeting explanations may arise from several sources. There are different the superiority of the new interpretation. As Olav Niølstad notes, comthat differs from an earlier scholar's but does not adequately demonstrate possible, conflicting interpretations of a case or to choose between them. A familiar challenge that case study methods encounter is to reconcile, if This problem can arise when the investigator provides an explanation

For discussion of this point, see George and McKeown, "Case Studies and Theories of Organizational Decision Making," pp. 38–39.

The nature and requirements of historical explanations are discussed in Chap

easy rather than tough tests of a theory was emphasized in Chapter 4. The need to avoid selecting cases that favor a particular theory and that constitute

Publications, 1990), pp. 220-245. Njølstad also offers several useful suggestions for Olav Njølstad, eds., Arms Races: Technological and Political Dynamics (London: Sage tory? Case Studies and the Limits to Theory-Building," in Nils Petter Gleditsch and provides illustrative materials. See also Olav Njølstad's chapter, "Learning from Hister 2, "Case Study Methods and Research on the Interdemocratic Peace," which also dealing with these problems, which are summarized in Chapter 2. This brief discussion draws from the fuller discussion of these problems in Chap-

available historical evidence; this makes it difficult to decide which is the Sometimes competing explanations can be equally consistent with the sues such as the relative importance of ideology or listorical context. correct explanation or, alternatively, whether both interpretations may be overdetermined. Another possibility is that each of the ostensibly comcausal variable in the other explanation is spurious. ity is that the key variable in one explanation is causal and the proposed ple, those explaining why a war occurred, those that explain the form of independent variables explain each step in the causal chain-for examtify different turning points in the causal chain and to sort out which dinal development. In such cases, the task of the investigator is to idenpeting explanations in fact addresses different parts of accomplex longitupart of the overall explanation—i.e., whether the dutcome may be the attack, those that explain its timing, and so on. Still another possibil-

aspects of a case and therefore cannot be reconciled. When this happens, when the rival interpretations address and attempt to explain different two interpretations as competing with each other. Another possibility is the investigator and readers of the case account should not regard the have simply disagreed on the "facts" of the case. that the rival explanations emerge because the scholars advancing them The problem of apparently competing explanations may also arise

and the implications of both for theory development should be considered in phase three of the study. both explanations for the case should be retained as equally plausible, tor do not permit him or her to choose from competing explanations, then In any case, if the data and generalizations available to the investiga-

Transforming Descriptive Explanations Into Analytical Explanations

concepts and variables of the general theoretical francework specified in searcher should consider transforming the specific explanation into the In addition to developing a specific explanation for each case, the rements of the historical context. That is, the set of independent and intertheoretical framework must be broad enough to capture the major eleplined-configurative" rather than "configurative-idio raphic.") To transform specific explanations into general theoretical terms, the researcher's Task Two." (In Harry Eckstein's terminology, such research is "disci-

a given case are expected or found to operate across the entire class of a causal account of the outcome in the case. The dividing line between ceptibility of actors to disease. It would, however, constitute a basis for a key participants in the decision process caught a cold and was unable to tional decision-making was decisively affected by the fact that one of the cases under consideration. For example, if some instance of organizawhat is essential and what is not is whether aspects of a causal process in vening variables must be adequate to capture and record the essentials of absence of important potential participants. general argument about how outcomes are affected by the presence or ing our theory of organizational decision-making to endogenize the susattend an important meeting, this would not constitute a basis for revis-

ready hypothesized to be operating in a particular case; and second, that more susceptible to this error when trying to discern new causal patterns answered abstractly. The transition from a specific to a more general exsimplification jeopardize the validity of the conclusions drawn from the critical question, however, is whether the loss of information and the at theory formulation or in theoretically formulated explanations. The some loss of information and some simplification is inherent in any effort and detailed historical explanation into a more abstract and selective one of the causal processes at work.8 readily the analysis will accommodate a more differentiated description the more fine-tuned and concrete the description of variance, the more than when attempting to evaluate claims about some causal patterns alhelpful. One slightly more specific guideline is that researchers seem the sensitivity and judgment of the researcher, while true, is not very able's general significance. To say that avoiding these errors depends on by the general theory or because the researcher fails to recognize a vanicesses at work in the case simply because they are not already captured planation may indeed lead a researcher to dismiss some of the causal procases for the theory and the utility of that theory. This question cannot be planation inevitably will be lost in the process. This is undoubtedly true: couched in theoretical concepts, arguing that unique qualities of the ex-Some historians will object to this procedure for transforming a rich

relative lack of concern with or discussion of methodological issues en appropriate for social scientists. One feature of most historians' work is a of historians, it has tended to follow certain procedures that are not really To the extent that the case study method has arisen from the practice

Studies of Political Development (Boston: Little, Brown, 1973). This study is among those summarized in the Appendix, "Studies That Illustrate Research Design." into an analytical one see Gabriel Almond et al., Crisis, Choice For an early discussion of the practice of transforming a historical explanation and Change: Historical

of the cases matters, and the destrability of making such determinations after preliminary analysis variance in the variables is described, our caution against a priori decisions on such See Chapter 4 for a discussion of Task Four and the critical importance of how

about behavior and initial data-collection rules were revised in the course investigator give some indication of how his or her initial expectations researcher faced in the analysis of a case and the justifica ers should explicitly discuss the major research dilemmas the case study countered in the performance of research. We believe th sis of the process by which a case and the conclusions based on the case of the study. This would permit readers to make a more informed analythose dilemmas in a particular way. Therefore, we recommend that the tions for solving it case research-

ing the theory-oriented analysis, and it may be highly desirable to do so ganizing device for presenting the case study materials. counts that exceed the usual limits for journal articles on even books! The it necessary to reduce the length of a case study to avoi focused explanation of it is a familiar challenge. Analysts frequently feel in order to enable readers not already familiar with the history of the case elements of the chronology of the case may be indispensable for supportmore cases, the more difficult this problem becomes. historical description of the case and development o to comprehend the analysis. Striking the right balance between a detailed Most historians also rely heavily on chronological narrative as an ori overly long ac-Preserving some a theoretically-

about the development and outcome of the case. The ensuing write-up in a reasonably effective way by a number of writers. cal narrative. As a theory becomes better developed an case need not always include a highly detailed or excludively chronologican blend additional historical detail with analysis.9 the case at the beginning of the analysis gives readers the essential facts developments within the case. play the logic of the actors' decisions or the sequence of internal plemented by such devices as decision trees, sketches of the internal anaoverly long narratives. Moreover, narrative accounts of cuses on more tightly defined targets, there will be less need to present lytical structure of the explanation, or even computer There is no easy answer to this dilemma. Still, it has been dealt with programs to dis-▲ brief résumé of a case can be supd as research to-Presentation of a

Some Challenges in Attempting to Reconstruct Decisions

explain important decisions face challenging problems. An important Scholars who attempt to reconstruct the policymaking process in order to limitation of the analysis presented here is that it is drawn solely from the

at least make use of, historians' research on the policy in question. Such able data on factors that entered into the policy process and evaluating study of U.S. foreign policy.10 We discuss first the task of acquiring relieral cautions should be observed in making use of these studies. historical studies can be extremely useful to political scientists, but sevtheir impact on the decision. Political scientists must often rely upon, or

notes Norman Cantoh's argument that a historian's work represents "a gued, "the work of historians is not . . . an unproblematic background shortcut overlooks the fact that competent historians who have studied seemingly authoritative study of the case at hand by a historian. Such a of interest may overstate the performance of favored hypotheses. upon too narrow a set of historical accounts that emphasizes the variables s/he was engaged, and the methodological choices governing his or her picture of 'what happened' that is just as much a function of his or her framing of problems and the testing of theories."11 Lustick approvingly narrative from which theoretically neutral data can be elicited for the that case often disagree on how best to explain it. As Ian Lustick has arwork."12 The danger here, Lustick argues, is that a researcher who draws personal commitments, the contemporary political issues with which First, researchers should forgo the temptation to rely on a single,

among historians about competing explanations of a case, and wherever dures apply to the primary political debates among participants in the potheses and specified in terms of theoretical variables. The same proceconsider whether these interpretations should be cast as additional hytranslate into the hypotheses already specified, the researcher should there are important historical interpretations of the case that do not easily competing hypotheses and their variables as outlined in phase one. If possible to indicate the possible political and historical biases of the concase and their critics. Even such overtly political debates may draw upor tending authors. The researcher should translate these debates into the It is thus necessary to identify and summarize important debates

George and Richard Smoke, Deterrence in American Foreign Policy: Theory and Practice (New York: Columbia University Press, 1974). See, for example, how this task was dealt with in studies such as Alexander L.

Mark Kramer, who expressed concern about the use of oral histories by Bruce J. Allyn, and interviews from Soviet sources. See, for example, the correspondence between Thomas G. Paterson in Diplomatic History, Vol. 14, No. 2 (Spring 1990), pp. 223-256. Mikoyan" by Raymond L. Garthoff, Barton J. Bernstein, Marc Trachtenberg, and Missile Crisis: Should We Swallow Oral History?" International Security, Vol. 15, No. 1 (Summer 1990), pp. 212–218. See also "Commentaries on 'An Interview With Sergo lames G. Blight, and David A. Welch, and their responses in "Remembering the Cuban Similar problems arise in efforts by scholars to make use of archival materials

Ian S. Lustick, "History, Historiography, and Political Science," American Politica Science Review, Vol. 90, No. 3 (September 1996), pp. 605–618.

generalizable variables that historians and researchers may have over-

propriate changes. 13 reviews of the first drafts of his cases from eight historials and made apaccounts of each of the cases he planned to study. Later, smoke obtained research, asked several historians to help him identify the best available would be to follow the practice of Richard Smoke, who at the outset of his One way to avoid the risk of relying on a single historical analysis

ers. 14 We may recall that historians have often stated that if history is apsearch objectives determine the general questions to the asked of each the questions they are asking. As emphasized in Chapter 3 on "The cal studies of a case should not assume that they will provide answers to each generation. History does not speak for itself to all successive generaproached from a utilitarian perspective, then it has to be rewritten for his or her study may not adequately reflect those of subsequent researchcase. The historian's research objectives and the questions addressed in Method of Structured, Focused Comparison," the political scientist's reevents to the present may have to be studied anew and reevaluated by later generations, the meaning and significance of tions. When new problems and interests are brought to a study of history the specific questions one asks of historical cases. Hence, the study of relevant historical experience very rhuch depends on Second, social scientists making use of even the best available historiearlier historical

archival or interview evidence that has not been exam that were not available to scholars writing earlier historical accounts. can make use of technologies, such as computer-assisted goals of subsequent researchers require. It is also possible that researchers measured or have not measured as systematically as variables the researcher identified in phase one that historians have not previously been unavailable. They may also include the measurement of identify the gaps in existing historical accounts. These gaps may include One of the key tasks during the "soaking and poking" process is to content analysis, lined or that had the explanatory

Third, having identified possible gaps in existing accounts, the re-

new interviews. In fact, political scientists studying international politics sources-archival materials, memoirs, oral histories, newspapers, and questions about each case can be obtained only by going to original searcher must reckon with the possibility that good answers to his or her challenging task of weighing the evidentiary value of such primary are increasingly undertaking this task. In doing so, however, they face the

sources, but they often are an important part of contextual developments rary public accounts are certainly not a substitute for analysis of archival accounts of the developments of a case unfolding over time. Contempocareful examination of contemporary public sources, such as daily media to find the answers to his or her research questions. The task of assessing sources and declassified government documents alone will be sufficient sense of the wider context because they have not taken the relatively easy of policymaking cannot be properly evaluated by scholars unless the which they are attempting to influence. Classified accounts of the process to which policymakers are sensitive, to which they are responding, or the significance and evidentiary worth of such sources often requires a from the period. 16 public context in which policymakers operate is taken into account. 15 We hard-to-get primary source materials of a case but who have only a vague have at times found students who have become intimately familiar with (but often time-consuming) step of reading the newspapers or journals Fourth, the researcher should not assume that going to primary

Harvard University Press, 1977). See the preface to Richard Smoke, War: Controlling Escalation (Cambridge, Mass.:

^{14.} The different ways historians and political scientists tend to define the task of ex-Need for a Theory-Based Archival Approach," in Colin Elman and Miriam Fendius planation and the different questions they often ask of available ing studies by historians that may reflect their selection bias are noted also by Lustick national Relations (Cambridge, Mass.: MIT Fress, 2001), pp. 327-340. The dangers of us-Elman, eds., Bridges and Boundaries: Historians, Political Scientists, "History, Historiography, and Political Science." helpful detail in Deborah Larson, "Sources and Methods in C**d**ld War History: The and the Study of Interdata is discussed in

stand part of the context in which policymakers were operating became a central which policymakers operate. See Larson, "Sources and Methods in Cold War History." per accounts help the investigator to discern important elements of the context in 1985). Larson amplifies and illustrates different ways in which contemporary newspa-Welch Larson, The Origins of Containment (Princeton, N.J.: Princeton University Press, was useful in evaluating the evidentiary significance of archival sources. See Deborah ceptions and responses. Careful study of the public context of private deliberations preciate the impact of events that came to the attention of policymakers on their pertemporary journalists accounts of developments, a procedure which helped her to apresearch into archival sources, Larson spent a great deal of time going through conmethodological procedure in Deborah Larson's research. In conjunction with thorough The importance of shudying contemporary journalistic sources in order to under-

lower margin rates to 10 percent as an extraordinary step to try halt the crash, based suggest that margins of 40 to 50 percent or higher were the norm. Banks offered to practice of buying stocks by putting up only 10 percent of their value as equity. In fact, speculation on margin credit rates "as low as 10 percent," or the supposedly common reasons to question the often-cited argument that the crash was caused by excessive serve Board, he found by reading the newspapers of the period that there are strong Bennett. In an unpublished study of the 1929 stock market crash for the Federal Rewhile no systematic data exists for the margins typically set, most newspaper accounts One example comes from the work of one of the present authors, Andrew

able and cannot be easily retrieved for research purposes e.g., important ily acquired by researchers. within internal e-mail and fax facilities-the results of which are not easdiscussions among policymakers that take place over the telephone or must be sensitive to the likelihood that important data may not be avail-Finally, research on recent and contemporary U.S. foreign policy

The Risk of Over-Intellectualizing the Policy Proces

should be sensitive to the possibility that several considerations motiexplanations—explanations in which there appears to the a single clear ars sometimes succumb to the common cognitive bias toward univariate and dominating reason for the decision in question. Histead, analysts clever by half," or that no individual would actually utilize. Also, scholpolicymaking process than is justified. For example, overly complex and decisions were made, they tend to assume an orderly and more rational When academic scholars attempt to reconstruct how and why important vated the decision. precise formal models may posit decision-making heuristics that are "too

and skill, such as Lyndon B. Johnson, use this strategy to optimize politithe particular reason for why a certain action was taken often fail to take cal gains from a particular decision. Disagreements among scholars as to offs from any decision they take. Leaders known for their sophistication this factor into account. In fact, presidents and top-level executives often seek multiple pay-

making group agree only on what to do without having to share the same reason or a single reason for doing so. To btain sufficient members of the group that not all those who support the decision have to do it. In some situations, in fact, there may be a tacit agreement among emerge for different reasons. It is sufficient that members of the policyparticipate in policymaking, agreement on what should be done can Particularly in a pluralistic political system in which a number of actors Several considerations can enter into a decision in other ways as well agree on why to

stock market behavior. In any event, a simple reading of the newspapers reveals that on the assumption that the crash was caused by a liquidity crisis as plunging stock explanations of the crash cannot unproblematically accept that markins were typically value of stocks versus bonds. This explanation is more in line with as by the classic bursting of a speculative bubble, and a revaluation of the relative crash, suggest that perhaps the crash was caused not so much by Pose margin credit measure failed to stem the crash, and that bond purchases were values led to margin calls on stocks and forced sales of those stock nodern theories of strong during the . The fact that this

> but also the precise reasons for doing so. often enough to agree on what needs to be done. It may not be feasible or oriented group, particularly one that operates under time pressure, it is sufficient time and resources may not be available for achieving a comconsensus on a decision may be difficult for various reasons, and wise to debate until everyone agrees not merely on what decision to take pletely shared judgment in support of the decision. In any action-

Assessing the Evidentiary Value of Archival Materials

significance of documents and interviews. cally assume that these investigators properly weighed the evidentiary dentiary value of archival materials that were generated during the Scholars doing historical case studies must find ways of assessing the eviing use of historical studies produced by other scholars cannot automatipolicymaking process under examination. Similarly, case analysts mak-

crepant information that challenges existing policies or preferences. employ a much higher threshold for giving serious consideration to disaccept new information that is consistent with an existing mind-set and operate with a double shandard in weighing evidence. They more readily terpretation and, conversely, to downplay the significance of an item that challenges it. As cognitive dissonance theory reminds us, most people lar significance to an item that supports their pre-existing or favored in-Scholars are not immune from the general tendency to attach particu-

when a scholar is overly impressed with and overinterprets the sigabout a case must be properly evaluated, and this task is jeopardized new evidence and compelling new interpretations emerge. Even seemis, historians must be prepared to revise existing interpretations when emerges on a controversial or highly politicized subject. nificance of a new item-e.g., a recently declassified document-that ingly definitive explanations are subject to revision. But new information All good historians, it has been said, are revisionist historians. That

vations will have to suffice. serves more detailed analysis than can be provided here, so a few obserinterpretation of archival materials. But questionable interpretations can materials. The importance of context in making such interpretations dealso arise when the analyst fails to grasp the context of specific archival Analytical or political bias on the scholar's part can lead to distorted

view. In interpreting the meaning and significance of what is said, the identiary worth of what is communicated in a document, speech, or intermunication. A useful framework exists for assessing the meaning and ev-It is useful to regard archival documents as a type of purposeful com-

munications and activities-past, present, and future? policymaking process? What was its relation to the stream of other compose(s) the document was designed to serve. How did it fit into the questions. As this framework emphasizes, it is useful to ask what purdocument often cannot be reliably determined without addressing these der what circumstances. 17 The evidentiary worth of what is contained in a analyst should consider who is speaking to whom, for what purpose and un-

ment of Russian President Boris Yeltsin in the mid-1990s to embarrass the mentation on Soviet decision-making on the invasion and occupation of of those officials who control their release. Much of the internal document's release to the public, and to be sensitive to the possibility that doclease any comparable documents on its own ill-fated intervention in Soviet coup attempt. Needless to say, the Yeltsin government did not re-Soviet Communist Party, which was then on trial for its role in the 1991 Afghanistan beginning in 1979, for example, was released by the governuments will be selectively released to fit the political and Chechnya in the mid-1990s. It is also important to note the circumstances surrounding the docupersonal goals

system. For example, which actors and agencies are the most influential sumptions regarding ways in which different policies are made in that vestigator is well advised to work with a sophisticated model or set of asparticipants in high-level policymaking? mation and advice on a given type of policy problem? How do status difin a particular issue area? To whom does the leader turn for critical inforferences and power variables affect the behavior of different advisers and In studying the outputs of a complex policymaking system, the in-

his or her hand—at least in the judgment of participants in the pro-"paper trail" leading to a policy decision. Has a country's leader tipped Thus, it is advisable to observe a number of cautions in following the

such a perception or misperception—have on the views expressed or cess—regarding what he or she will eventually decide? What effect does officials' own words rather than those of speech writers and other with each other behind the leader's back regarding what advice and opadvisers? to what extent do specific rhetorical formulations represent these top their differences and protect their own interests?18 What role did tions to recommend in the hope and expectation that they can resolve written by advisers? Are some of the influential policymakers bargaining policymakers play $| ext{in}|$ writing their own public speeches and reports, and

reminds us that "many international leaders take pains to disguise their torted for this and other reasons.19 Diplomatic historian Stephen Pelz ing with national security affairs witnessed occasions on which the writaccounts of decisions often wish to leave behind a self-serving historical tions, goals, and images of the world from a variety of sources."20 figures as Franklin D. Roosevelt consists of reconstructing their assumpreasoning and purposes, and therefore much of the best work on such ten, classified record of important decisions taken was deliberately disrecord. One scholar who recently spent a year stationed in an office deal-It is well known that those who produce classified policy papers and

ated by the nature of the political system and its political culture and build consensus; or the leader may need to satisfy the expectation (genermore likely to support whatever decision the president makes—i.e., to tunity to contribute to the decision-making process so that they will be may wish to give important advisers the feeling they have had an opporobtain emotional support for a difficult, stressful decision; or the leader may consult for any one or several other reasons. The leader may want to final decision—i.e., to satisfy his or her "cognitive needs." But he or she she consults in order to obtain information and advice before making a may do so for several different reasons.²¹ We tend to assume that he or in "consultation" with advisers, one needs to keep in mind that he or she In assessing the significance of "evidence" that a leader has engaged

^{1973),} pp. 107-121. George, Propaganda Analysis: A Study of Inferences Made from Naza from its propaganda by means of qualitative content analysis methods for inferring the intentions, beliefs, and other characterist War II (Evanston, III.: Row, Peterson, 1959; and Westport, Conn This framework was initially developed and employed in a study that examined Propaganda in World Greenwood Press cs of a political elite See Alexander L

light on the actor's ideology or cultural beliefs and the role various reading matter insofar as it can be established that it was read, may throw reflect the emotions experienced at different junctures. Also, the "incoming files" of ularly since such materials are often not designed to persuade oth helpful in developing understanding of their general beliefs about chival materials. Personal correspondence and diaries of historical actors can be very search experience to emphasize the need to distinguish between various types of ar-In a personal communication (March 26, 2000), Jeremi Suri drew on his own repolitical life, particthey may play in rs; such sources can

^{18.} Some of these possibilities are among the various "malfunctions" of the policymaking system discussed in Alexander L. George, Presidential Decisionmaking and Foreign Policy: The Effective Use of Information and Advice (Boulder, Colo.: Westview Press, 1980), chap. 6.

This observation was provided by a scholar who must remain anonymous.

p. 100. International Relations Methods," in Elman and Elman, eds., Bridges and Boundaries Stephen Pelz, "Toward A New Diplomatic History: Two and a Half Cheers for

Pp. 81ff. This paragraph and the next one draw on George, Presidential Decisionnaking

combine several of these purposes.) made. (Of course, a leader's consultation in any particular instance may sures Congress and the public that it was well-considered and properly hopes to achieve "legitimacy" for a decision by giving evidence that assponsibility with regard to the matter being decided; that is, the president norms) that important decisions will not be made without the participation of all key actors who have some relevant knowledge expertise, or re-

sion is justified and how it bears on the evidentiary wor will enable them to assure the public later that the decision was made afpolicymakers are motivated to conduct the decision profess in ways that demands to know how an important decision was made, top-level makers shortly after the event. Knowing that the interested public sions by leading journalists on the basis of their interviews with policyopment in recent decades of "instant histories" of many of how and why a particular decision was made. making, the case analyst must consider to what extent such an impresbe slanted to portray a careful, multidimensioned plocess of policyter careful multisided deliberation. Information to this effect is given to process was followed in making important decisions. Consider the devel-United States. The public wants to be assured that an orderly, rational journalists soon after the decision is made. Since "instant histories" may tion conveyed in the instant history and in subsequent "insider" accounts This last purpose—consultation—is of particular interest in the h of the informa-| important deci-

zation of his decision.22 of these complexities. An excellent example of a study that captures the motions of consultation for purposes of consensus-building and legitimitroops into Vietnam. Some archival sources suggest that Johnson emdent Johnson's decision in July 1965 to put large-scale ground combat Johnson had already decided what he had to do and went through the he thoughtfully solicited all views. But according to Berman's analysis, ployed a careful, conscientious version of "multiple ad" dynamics of decision-making is Larry Berman's interpretation of Presi-To weigh archival type material effectively, scholars need to be aware ocacy" in which

val sources generated by the formal track of his policymaking. Easily making style, scholars could easily misinterpret the significance of archiics at the time. Working with this image of Eisenh reaucratic, a perception shared by important congressional and other crit-D. Eisenhower's policymaking system was highly formalistic and bu-In another example, many scholars assumed that President Dwight pwer's decision

veloped that pays attention to both the formal and informal policy tracks more sophisticated way of studying Eisenhower's policymaking has deand to the interaction between them. about the "hidden hand style" by which Eisenhower operated.23 Now, a formal procedures, awareness of which led Fred Greenstein to write overlooked was the informal track, which preceded and accompanied the

use interviews, memoirs, the media, etc., to obtain this valuable material. to become the subject of a written archival document. It is important to work that considers both tracks is, of course, not confined to studying the Eisenhower presidency. The workings of the informal track are not likely The relevance and usefulness of working with an analytical frame-

ferent participants in the process have different views as to what took and why a decision was made—i.e., the "Rashomon" problem, when difofficials often do not have a complete or fully reliable picture of how searcher must take into account that even well-informed lower-level who focused on the issues in question only intermittently. However, a rewas decided than the top officials who actually made the decision but who worked on an issue every day have stronger recollections of how it in or detailed recall of the events under study. Often, lower-level officials advisers. At the same time, we find that researchers at times interview officials who are too high in the hierarchy to have had close involvement being the president-one encounters a handful of key officials and top if not actual) increases. As one reaches the layer next to the top—the top of actors and participants grows smaller but their importance (potential, of its significance for policy. As one moves up the pyramid, the number ways), analyzing available data on a problem and offering interpretations with the bottom one sends communications upwards (as well as sideuseful the analogy of a pyramid of several layers. Each layer, beginning archical nature of the policymaking system in most governments. We find sessing the evidentiary worth of archival sources has to do with the hier-Another aspect of the importance of a contextual framework for as-

much of the material coming to the top-level group of policymakers from top-level policymaking? How does a researcher deal with the fact that lem? What cautions are necessary when examining archival sources on How do sophisticated historians and other scholars cope with this probneous interpretation of the significance of archival material is enormous. tions and documents that the scholar must assess. The possibility of erro-This layered pyramid produces an enormous number of communica-

York: Norton, 1982) Larry Berman, Planning a Tragedy: The Americanization of the War in Vietnam (New

Basic Books, 1982) Fred I. Greenstein, The Hidden-Hand Presidency: Eisenhower As Leader (New York

the justifications given for his or her decisions? How can one tell why he or she really decided as he or she did as against from below to the top-level officials made a difference in the decision? below is inconsequential? How does one decide which material coming

of reliable documentary sources on such decisions is the role that secrecy end before final decisions are made. Among the reaspns for the absence posing the operation briefed us orally."24 little was put on paper. [Allen] Dulles, [Richard] Bissell, and others prostruct the Bay of Pigs operation, particularly its planning, because very tion, later stated that secrecy "made it very difficult for many to reconcan play. Dean Rusk, Secretary of State during the Kennedy administratop-level decisions can also run into the problem that the paper trail may The analyst's search for documentary evidence on reasons behind

and analysts? We have not yet found any book or major article that prothem. What general lessons can be drawn that would help train students example, suggests that "to judge the influence of a memo written by a have employed in dealing with archival materials. Deborah Larson, for warn writers of historical case studies about some of these problems and tiary worth of archival materials.25 The most we car do, therefore, is to vides an adequate discussion of the problems of weighing the evidenlustrate these problems, and indicate how individuto call attention to some of the methods historians and political scientists No doubt there are important examples of scholarly disputes that ilil analysts handled

Council policy memoranda."26 a first step in analysis. Sometimes higher officials will make marginal secretary of state initialed a memo does not prove that he read it, but it is lower-level official, one can look to see who initialed it. Of course, that a memos written by lower officials sometimes appear in National Security comments-these can be quite important. Finally, paragraphs from

Problems in Evaluating Case Studies

are not theoretical or historical experts on all the subjects of these studies. these desiderata suffices to indicate that they are not easily met. Our own ments for readers who must evaluate case studies, and simply to state This is a problem also for those who review these books in academic commentaries of case study research designs in the Appendix, "Studies plausible counterfactual analysis of their own. These are tough requireto evaluate the case writer's use of counterfactual analysis or to provide generalizations and theories employed by the case writer; and an ability the range of data available for studying it; knowledge of the existence of the validity of the explanation of a case unless they possess a degree of of a case makes the difficulties of critiquing qualitative research different work may face. The importance of understanding the history and context Case writers should become familiar with the variety of critiques their That Illustrate Research Design," should be read with the caveat that we different interpretations offered by other scholars and of the status of the themselves possess some familiarity with the complexity of the case and independent knowledge of that case. This requires that reader-critics from those of assessing quantitative work. Readers cannot easily judge

ers who attempt to evaluate case studies. Much of the preceding discustional observations can be made. sion is relevant to the task of evaluating case studies, and a few addi-Let us discuss some of the problems likely to be encountered by read-

search objective of attempting to use case findings to "test" an existing inadequately considered? When the case writer pursues the different realyst has "imposed" a favored theory as the explanation. Have alternaobjective of the case. When the investigator's research objective is to extive theories that might provide an explanation been overlooked or plain a case outcome, the reader-critic must consider whether the case an-The task of evaluating case studies differs depending on the research

^{1990),} cited by Richard Ned.Lebow, "Social Science and History; Ranchers versus Farmers," in Elman and Himan, eds., *Bridges and Boundaries*, p. 132. As told to Richard Rusk in Daniel S. Papp, ed., As I Sau It (New York: Norton,

pp. 177-196. Mulligan identifies various criteria historians en what circumstances?" framework we suggest, namely asking, "who says what to whom for what purpose in mental document Nonetheless, Mulligan's article illustrates the relevance of the search on an aspect of the Civil War. This source was a personal letter, not a governcorrect evaluation of a primary source which sharply challeng how each criterion applies to his own research, which focused on the importance of a on these issues made by a large number of distinguished historians and illustrates authenticity, meaning, and significance of historical sources. He cites the observations Treatment of A Historical Source," History and Theory, Vol. The most useful account we have found is the article by ploy for evaluating the 18, No. 2 (May 1979), John D. Mulligan, "The s accepted historical re-

the website "History Matters" <**www.history.matters.gmu.equ.> which is designed for high school and college teachers of history. This website includes sections on tative Historical Analysis in the Study of International Relations," *International Studies*Perspective, Vol. 3, No. 4 (November 2002), pp. 351-372. This article includes a comprehensive list of sources that contributed to his essay. Readers n making sense of evidence" and "secrets of great history tea Also useful is the recent article by Cameron G. Thies, "A Pragmatic Guide to Qualithers." ay also want to consult

<u>26</u> Letter from Deborah Welch Larson to Alexander L. George, April 10, 1999

investigator has overlooked or inadequately considered the theory in question? Do they perhaps also support other theories the tute an easy or tough test of the theory? Do case findings really support theory, there are several questions the reader-critic has to consider in deciding whether such a claim is justified. Does the case (or cases) consti-

non is subject to multiple conjunctural causation c or has not considered the possibility or likelihood th overlooked or unduly minimized potentially important causal variables, Reader-critics must consider the possibility that the case-writer has at the phenomet is affected by

emphasize that case writers should be familiar with the variety of critiories are also discussed in Chapter 6. They are referred there in order to cisms that can be and often are made of their work. These and other problems in using case studies to de velop or test the

ated and how we came to possess them."27 can often do more to at least approximate them. We stropgly concur with standards include (but are not limited to) providing enough detail to satstudies must be closely linked with standards for case "the most important rule for all data collection is to report how the data were crethe admonition of Cary King, Robert Keohane, and Sidney Verba that dards are often difficult to meet in case study research, but case writers reliability of the way in which variables are scored. Certainly these stanisfy as much as possible the criteria of replicability and of the validity and ent enough to enable readers to evaluate them. Transparency of case go as far as reasonably possible to make the analyses they offer transparmethodological standards. To meet this requirement, ca readers in evaluating whether their case analyses ha In addition, we urge that case writers accept the obligation to assist e studies. These ve met relevant e writers should

count the special characteristics of qualitative methodology.23 ventions for quantitative analysis. Some of these conventions apply also matter of simply extending to qualitative analysis all of the standard conpropriate rules for qualitative analysis. As argued in learlier chapters, to qualitative analysis, but guidelines for case studies roust take into achowever, the development of such guidelines should not In sum, case analysts should strive to develop and make use of apbe regarded as a



CHAPTER 5 107

Conclusion

of International Relations. is in draft form for the time being. Its title is Historical Method in the Study of a new guidebook on how to make use of primary historical sources. The author, Marc Trachtenberg, has produced a superb manuscript which The present book was in process of publication when we became aware

and political science for insightful research on foreign policies. dents and professors who want to integrate the perspectives of history of international relations. This book will be an invaluable source for stubringing together historical and political science approaches to the study ical science department at UCLA several years ago. He has succeeded in Himself a leading diplomatic historian, Trachtenberg joined the polit-

war in 1941. of Historical Texts"; and Chapter 5, "Working with Documents." A chap-Theory"; another chapter provides a detailed analysis of America's road to ter is also provided on "Diplomatic History and International Relations titles of several chapters may be noted: Chapter 3, "The Critical Analysis We will not attempt to summarize the rich materials he presents. The

trate his points. on foreign policy. Trachtenberg provides many incisive examples to illusis written in an engaging style. It will become standard text for research Trachtenberg's treatment of these issues is unusually user-friendly. It

ments are not necessarily to be taken at face value, and one has to see purpose it was meant to serve."29 habit of asking why a particular document was written—that is, what things in context to understand what they mean. One has to get into the ago: "The basic methodological advice one can give is quite simple: docu-We may also recall the statement that Trachtenberg made some time

is strongly reinforced by Deborah Larson on the basis of her experience in garding the proper use of archival sources, at least for research on U.S. Origins of Containment, 20 A recent article by Larson helps to fill the gap reconducting in-depth research in archival sources in preparing her book val sources as being mostances of purposive communication. This advice We have stressed in the preceding pages the necessity to regard archi-

Scientific Inference in Qualitative Research (Princeton, N.J.: Princeton University Press, 1994), p. 51. Emphasis in original. Gary King, Robert O. Keohane, and Sidney Verba, Desig ning Social Inquiry:

search Design in Qualitative Analysis," Studies in Comparative International Development, Vol. 33, No. 3 (Fall 1998). The author provides a systematic and balanced assess-For a detailed analysis of this position, see Gerardo L. Murck, "Canons of Re-

ment of the canons t qualitative research imbedded in King, Keohane, and Verba, Designing Social Inquiry.

cated that he is currently studying methods for assessing archival and other sources in research on international politics. In a letter to Alexander L. George (January 29, 1998), Marc Trachtenberg indi-

^{30.} Larson, The Origins of Containment

goals, we cannot directly infer the communicator's stat arguments without considering his immediate aims.31 leaks, or persuade others to adopt his preferred policy. Whatever his favorable impression of himself, put himself on the record in case of at a meeting may be trying to ingratiate himself with superiors, create a rectly interpret its meaning. . . . The author of a memorandum or speaker purpose of a document and the events leading up to it in order to corforeign policy. In it she emphasizes that it is important to understand the of mind from his

and provide clues as to what events they regarded as important. . . . In statement. Newspapers help to show what information times, the purpose of speeches or statements, or the public reaction to a documents. "News accounts can help to establish the atmosphere of the newspapers sometimes can be essential for ascertaining the context of this way, newspapers help us to recapture the perspective of officials at Larson also notes that study of contemporary accounts in leading policymakers had

Chapter 6

for Theory Implications of Case Findings Phase Three: Drawing the

both enterprises as essential to constructing good theories. science emphasize theory testing more than theory development, we see nomenon. While marky works on research methods and the philosophy of which of two or more theories best explains a case, type, or general phetheory, narrow or extend the scope conditions of a theory, or determine tions effects. Theory testing aims to strengthen or reduce support for a variables, hypotheses, causal paths, causal mechanisms, types, or interacbility probes and studies of deviant cases can uncover new or omitted and theory testing. On the inductive side of theory development, plausi-Case study findings can have implications both for theory development

causal mechanisms as an explanation of a particular case, but these prove ment error or omitted variables. to be demonstrably absent, then the theory is greatly weakened as an exods like process-tracing come into play. If a theory posits particular weaken historical explanations of a case. This is where within-case methand testing on three levels. First, they may establish, strengthen, or planation for this case, though there is still the possibility of measure-Case study findings can have implications for theory development

ly imply that the theory poorly explains other, dissimilar cases; indeed, the existing theory may have earlier demonstrated a strong ability to exdating an existing theory as an explanation of one case does not necessarquires showing that it accurately explains other cases. Conversely, invalinations of other cases that are dissimilar in some respects. Establishing the general applicability of a new or modified explanation of a case re-Yet a modified historical explanation of a case may not add to expla-

pp. 327-350. 31. Deborah Welch Larson, "Sources and Methods in Cold War History,"

problems in which they were involved. Daalder and Destler plan a final summary ect," established in 1998 by Ivo H. Daalder and I.M. Desti former officials specializing in foreign and security affairs to discuss specific historical versity of Maryland. This series of roundtables, published period Brookings Institution and the Center for International and Secur Ibid. See also the project "Oral History Roundtables: The National Security Proj x, sponsored by the ty Studies at the Uniically, brings together

predecessor, or even only one case, while being inapplicable to others. may be superior in explaining only some of the cases explained by its its predecessors, we do not require that this always belso. A new theory plain cases. Whereas some earlier approaches assumed or demanded that a new theory subsume or explain all of the phenoniena explained by

values of potentially causal variables omitted from the theoretical framedeterrence) of which this case is a member. Here, the generalization denot explain a case may be generalized to the type or class of cases (e.g., inferences because they may differ from the case or cases studied in the Generalization to cases not studied always entails sonle risk of mistaken pends on the precision and completeness with which the class of cases has been defined and the degree to which the case exemplifies the class. Second, and more generally, the finding that a theory does or does

non. Here overgeneralization is a risk, since the analyst is generalizing stances be generalized to neighboring cells in a typology, to the role of a strong tests of theories, allowing generalization beyond the particular alizations about a type. Still, some cases may constitute particularly usually limit themselves to narrow and well-specified contingent generas causally related to the outcome. This is why case study researchers cases that differ in the value of variables that have been already identified particular variable in dissimilar cases, or even to all cases of a phenomecases studied. Third and most broadly, case study findings may in some circum-

drawing wider implications from case studies, as they are a necessary condition for any generalizations beyond the case. Contingent or typoproved historical explanations of individual cases are|the foundation for theory development and then in theory testing. It doncludes that imlogical generalizations are often the most useful kind of theoretical This chapter looks at each of these kinds of generalization, first in

in research programs, drawing attention toward avenues for future clusions to causally dissimilar cases. Findings that can be extended to difhistorical explanations but present limited risks of extending these conloose generalizations. However, they can be important turning points ferent types of cases are less common, and often must be stated as only conclusions from case studies, as they build on and go beyond improved

Theory Developmen

clearer specification of a theory and its variables and by attempting to better identify which cases might prove most valuable for theory also focus directly on the goal of theory development, by aiming at causal mechanisms. (Plausibility probes, which we do not discuss here, case studies is primarily an inductive process. This section highlights the studies can test deductive theories and suggest new variables that need usefulness of deviant cases for inductively identifying new variables or vides an excellent example of this process.) But theory development via to be incorporated. (The literature on deterrence, as noted below, prodevelop entirely new theories or fill the gaps in existing theories; case the deductive development of theory. Deductive methods can usefully The development of theory via case studies should be distinguished from

were not expected to have any effect. case, unless the case is one in which the previously overlooked variables tion of the case, but not necessarily to any new generalizations from the ables that had been previously overlooked but whose effects are well known from other research. This leads to an improved historical explana-The outcome in a deviant case may prove to have been caused by vari-THEORY DEVELOPMENT AND HISTORICAL EXPLANATION OF SINGLE CASES

ratory experiments and in the practices of social scientists.3 around them. In addition, using the same evidence to create and test a theory also exacerbates risks of confirmation bias, a cognitive bias toward same evidence; facts cannot test or contradict a theory that is constructed advised not to develop a theory from evidence and then test it against the novel theories and variables. In this context, researchers are frequently affirming one's own theories that has been well documented both in labo-An inductively derived explanation of a case can also involve more

However, it is valid to develop a theory from a case and then test the

we encounter evidence that is likely only if the theory is true and unlikely if alternawe should place in an existing theory versus a new competing theory. Briefly, in the researchers assign to the truth of competing theories. The Ba tive explanations are true. This relies, however, on subjective prior probabilities that Bayesian approach, we increase our prior estimate of the likely ers' confidence in theories to converge. For arguments on both|sides of this issue, see ferent researchers assign to theories will "wash out" as new evidence forces researchpractice is that as evidence accumulates, differences in the priof probabilities that dif-(Cambridge, Mass.: MIT Press, 1992). John Earman, Bayes or Bust? A Critical Examination of Bayesun Confirmation Theory The Bayesian approach to theory choice is one means of weighting the confidence vesian defense of this ruth of a theory when

David Collier and James Mahoney, "Insights and Pitfalls: \(\frac{1}{2}\)election Bias in Qualitative Research," World Politics, Vol. 49, No. 1 (October 1996), \(\frac{1}{2}\)pp. 59-91.

their predictions appear to be biased in favor of their initial theories, see Philip Tetlock, For a study that indicates that social scientists' explanations for the failures of

cases that differ in ways that may prevent generalization back to the origthey should find in archives before these are made accessible or in internot even thought to look for. Researchers can also predict what evidence of a case in ways that accommodate new evidence and also predict what sources, there are many opportunities to reformulate ihitial explanations which the outcome arose. As a researcher begins to delve into primary they are fairly expert on a case and its outcome (or the value of its decase, and can circumvent confirmation biases. Researchers, even when rive the theory. This makes the theory falsifiable as an explanation for the theory against additional evidence from the case that was not used to dethe case; otherwise, the only recourse is to test the explanation in other planation from data in the case and then test it agains other evidence in tion of a case, the most convincing procedure is often to develop an exviews before they are carried out.5 Indeed, in testing a historical explanathe researchers should find in evidence they have not yet explored or had pendent variable), are often ignorant of the detailed processes through

THEORY DEVELOPMENT AND CONTINGENT GENERALIZATIONS

fills out the cells or types of a more comprehensive ti tions on the conditions under which particular causal paths occur, and thus contributes to the cumulative refinement of contingent generalizathe causal processes that apply to a subtype of cases "building block" approach, with new case studies idenfifying subtypes or case. As we discuss in Chapter 11, this process can take place through a The study of a deviant case can lead a researcher to idehtify a new type of eory. Each case study

ies with suspicion. Yet one can generalize from unique cases by treating Historians often view efforts to generalize from historical case stud-

tics: Are We Prisoners of Our Preconceptions?" American Journal cognitive biases, including the bias toward over-confidence in che's causal theories, a 43, No. 2 (April 1999), pp. 348-349. Researchers should also be on guard against other "Theory-Driven Reasoning about Plausible Pasts and Probable Jutures in World Poliresemble consequences in terms of scale, scope, or complexity. preference for uni-causal explanations, and a tendency toward of Political Science, Vol. assuming that causes

able, or through qualitative analysis of a small number of instances. a sufficiently large number of cases of a particular phenomenon is availclass of similar events. This can be done through statistical analysis when out history which can be grouped together and studied as a class or subsubtypes of undertakings and phenomena that occur repeatedly throughgetting in, staying in and getting out. Such designations help identify tary interventions into sequential stages and the differing dynamics of Jentleson, Ariel Levite, and Larry Berman broke down protracted miliment theory, initiation theory, and response theory. Similarly, Bruce number of more specific theories which deterrence comprises: committicular policy instruments or the views of designated actors. For example, into its specific component theories, or sequential stages, focusing on par-Alexander George and Richard Smoke divided deterrence theory into a develop "concatenated" theories by dividing a complex causal process distinguishing subclasses of each of the phenomena. Researchers can also of alliance formation, deterrence, war initiation, negotiation, peacethem as members of a class or type of phenomenon; that is, as instances keeping, war termination, revolution, and so on. This is often followed by

grained types and subtypes? As Sidney Verba put it many years ago: Where should one draw the line in developing ever more finely

tems, we bring back so much that we have a "unique" to arrive at any generalizations that hold up across a series of political syscle.... As we bring more and more variables back into our analysis in order sound quite idiographic or configurative... In a sense we have come full cirwe end up with an explanation tailored to each case. The result begins to vening variable after intervening variable. Since the cases are few in number, configurative whole, laws? Generalizations fade when we look at particular cases. We add inter-To be comparative, we are told, we must look for generalizations or covering laws that apply to all cases of a particular type. But where are the general

mulate the idiosyncratic aspects of the explanation for each case in terms tion is infeasible. Rather, the solution to this apparent impasse is to for-Yet Verba did not conclude that the quest for theory and generaliza-

variables, even with the advantage of use-novelty, are challenging and often less conchapter on congruence testing, tests of the congruence of independent and dependent variables can provide some use-novelty for researchers; however clusive than process-tracing tests. accounts or secondary sources that do not use precise definitions. Thus even these independent and dependent variables is mistaken, particularly Researchers also often find that their preliminary knowledge of the values of the tenendent and dependent variables is mistaken, particularly if it is based on news er, as we note in our

No. 4 (July 1998), pp. 650-680. William Wohlforth suggests this practice in "Reality Check Revising Theories of International Politics in Response to the End of the Cold War," World Politics, Vol. 50,

sion of George and Smoke in the Appendix, "Studies That Illustrate Research Design." Alexander L. George and Richard Smoke, Deterrence in American Foreign Policy: Theory and Practice (New York: Columbia University Press, 1974). See also the discus-

This book is discussed in the Appendix, "Studies That Illustrate Research Design. tion: The Dynamics of Protracted Conflict (New York: Columbia University Press, 1992) Bruce Jentleson, Ariel Levite, and Larry Berman, eds., Foreign Military Interven-

^{1 (}October 1967), pp. 113-114. Sidney Verba, "Some Diemmas of Political Research," World Politics, Vol. 20, No

of general variables. "The 'unique historical event' cannot be ignored," Verba notes, "but it must be considered as one of a class of events even if it happened only once."

One criterion that helps determine where to draw the line in the proliferation of subtypes is the notion of "leverage"—the desirability of having theories that explain as many dependent variables as possible with as few simple independent variables as possible. This is not the same as parsimony, or simplicity of theories. We agree with Verba and his co-authors Gary King and Robert Keohane that parsimony is 'an assumption . . . about the nature of the world: it is assumed to be simple . . . but we believe [parsimony] is only occasionally appropriate . . theory should be just as complicated as all our evidence suggest." 10

tively, via detailed examination of how the value of a particular variable and also in deciding how best to describe the variance in each of the varicess of moving from a specific to a more general explanation. The critical velopment strengthens the linkage between history and political science. categories for describing the variance in each of their variables inductures of "uniqueness." For this reason, investigators should develop the variable are formulated—may be critical for capturing the essential feaables. The latter task in particular—the way in which variations for each judgment of the investigator in choosing and conceptualizing variables answered abstractly or a priori. Much depends upon the sensibility and jeopardizes the validity and utility of the theory. Thi question, however, is whether the loss of information and simplification Some of the particular qualities of each case are inevi differs across many different cases. The recognition that even unique cases can contribute to theory deably lost in the proquestion cannot be

THEORY DEVELOPMENT AND GENERALIZING ACROSS TRPES

The most general kind of finding from a deviant case is the specification of a new concept, variable, or theory regarding a causal mechanism that affects more than one type of case and possibly even all instances of a phenomenon. This specification of new concepts or variables, as Max Weber noted, is often one of the most important contributions of research. ¹¹ Charles Darwin's theory of evolution, for example, was sparked by a small number of cases (particularly the small differences between

finches on the South American mainland and those on the Galapagos Islands), but it posited new causal mechanisms of wide relevance to biological and even social systems.

ent contexts. 12 the understudied factor of alliance dependence would play out in differthe authors developed fairly detailed contingent generalizations on how on—help tilt the balance toward or away from a contribution. In short, institutions, the nature of the public good of alliance security, and so As these forces offset one another, other factors—domestic politics and so does the ability of the powerful state to coerce dependent allies as well free riding grows as one state becomes more powerful relative to others, tive in alliance behavior than had been argued. While the temptation of gested that the collective action hypothesis was generally less determinanovel hypothesis in explaining international behavior, the finding sugtably Germany and Japan. While pressure from a powerful state is not a tions by allies dependent on the United States for their security, most nowould have predicted more free-riding. The authors found that pressure from the United States, the coalition leader, explained the large contribusizeable contributions to the Desert Storm coalition contradicted the colof burden sharing in the 1991 Gulf War partly because several countries suggest that it should be widely relevant. As an example of the former, anism may play out in different contexts, or he or she may only be able to searcher may be able to generalize about how the newly identified mechlective action theories that then dominated the literature on alliances and Andrew Bennett, Joseph Lepgold, and Danny Unger undertook a study When a deviant case leads to the specification of a new theory, the re-

Theory Testing

When theories are fairly well developed, researchers can use case studies for theory testing. The goal here is rarely to refute a theory decisively, but rather to identify whether and how the scope conditions of competing theories should be expanded or narrowed. This is a challenging process: when a theory fails to fit the evidence in a case, it is not obvious whether the theory fails to explain the particular case, fails to explain a whole class of cases, or does not explain any cases at all. Should we blame a theory's

^{9.} Ibic

Gary King, Robert O. Keohane, and Sidney Verba, Designing Social Inquiry: Scientific Inference in Qualitative Research (Princeton, N.J.: Princeton University Press, 1994), pp. 29, 20.

^{..} Marianne Weber, Max Weber: A Biography, trans. Harry Zohn (New Brunswick,

N.J.: Transaction Press, 1988), p. 278, cited in David Laitin, "Disciplining Political Science," American Political Science Review, Vol. 89, No. 2 (June 1995), p. 455.

See Chapter 11 for a more detailed discussion of this research as an example of typological theory. See also Andrew Bennett, Joseph Lepgold, and Danny Unger, "Burden-Sharing in the Persian Gulf War," International Organization, Vol. 48, No. 1 (Winter 1994), pp. 39–75.

ditions to exclude anomalous cases, or by adding additional variables to danger of too readily retaining a false theory by narrdwing its scope congeneral theories on the basis of one or a few anomalous cases, as these or on some combination of the two? We should not be too quick to reject the theory to account for anomalies. theories may still explain other cases very well. Conversely, there is a rowing of the theory's scope conditions to exclude the anomalous case) that rendered the theory inapplicable (which would require only a narfailure on a flaw in the theory's internal logic or on contextual conditions

tails to fit a growing number of cases. gle case can disprove a deterministic assertion, even many cases cannot ables, and endogeneity problems or feedback effects. Such theories are tions among numerous variables, low-probability rela subject to empirical tests if they involve the most complex types of causal to strong tests if they assume high-probability (but not necessarily deteroften the kind that most interest case study researchers, may be subjected such as equifinality and interactions effects. Still, such or linearity can be falsified by a single case (barring theasurement error). falsify a probabilistic claim—it is only increasingly unlikely to be true if it difficult to test even with large numbers of cases to stildy. Although a sinrelations, or what might be called "enigmatic" causalify: complex interacber of variables, interactions, and causal paths. Theories are hardest to ministic) relations between variables and posit a manageably small numpendent on the causal assumptions of theories themselves. For example, Theories are harder to test if they posit more complex causal relations, theories that posit simple causal relations, such as necessity, sufficiency, An additional difficulty in theory testing is that tests are partly detions between varitheories, which are

or whether it is being pushed into predictions beyondlits rightful scope. 14 on whether a theory is being forced to "stick its neck out" sufficiently far, of the variable under study. 13 Of course, researchers frequently disagree could also be too tough if countervailing variables mask the causal effects creation of an easily discounted "straw man" version of the theory. A test If an empirical test is beyond the domain of phenomena to which the the should not be forced into predictions beyond its scope; this leads to the While theories need to be developed into a testable form, a theory

scope rather than falsify it. ory has been applied, then findings inconsistent with the theory limit its

and how unique are the predictions the theory makes for the case? for a theory: How strongly do the variables predict the case's outcome, ation, however, is the issue of how tough an empirical test a case poses generalizing the results of a case study's theory tests. A key considerening the scope conditions of a theory that is in fact false or inapplicable? scope conditions of a theory that is in fact accurate, or accepting or broad-There are no infallible criteria for addressing all of the complications of How can a researcher avoid too readily rejecting or narrowing the

TESTING COMPETING EXPLANATIONS OF CASES

fied by all the other hypotheses militated against this outcome. process of the German and Japanese contributions to the coalition. This institutions) only the alliance dependence hypothesis fit the outcome and ance dependence, $|\operatorname{coll}|$ ective action, domestic politics, and policymaking highlighted the power of alliance dependence, since the variables identiburden-sharing in the 1991 Gulf War noted above (balance of threat, allibest explains the case! Of the five hypotheses considered in the study of case fits only one exphanatory theory is powerful evidence that the theory planation. For closely studied phenomena, however, the finding that a study, a theory can only make a rather weak claim to being the "best" extheory available." |6 If a phenomenon has not previously received wide outcome it predicts "could not have been expected from the best rival An explanation of a clase is more convincing if it is more unique, or if the

N.Y.: Cornell University Press, 1997), p. 34. See Stephen W. Van Evera, Guide to Methods for Students of Political Science (Ithaca,

critiques neorealist theories for claiming to eschew any testable predictions on individories of Foreign Policy," Security Studies, Vol. 6, No. 1 (Autumn 1996), pp. 7-53. Elman 14. See, for example, Colin Elman, "Horses for Courses: Wily Not Neorealist The ual states' toreign policies,

not definitive regardless of the outcome. See Van Evera, Guide to Methods, pp. 31–32. cent.) "Straw-in-the-wind" lests, with predictions of low certainty and uniqueness, are bank camera, which can both convict those guilty of robbery and exculpate the innowhich either passage or fallure is definitive. (Van Evera gives the example here of a Passing such a test is strong corroboration, but failing it does not undermine a theory. definitive. "Smoking gun lests" are those in which a theory is unique but not certain tain but not unique. Failing such a test is damaging to a theory, but passing it is not regarding the test. "Hoop|tests" are those in which the predictions of a theory are cerpirical test depends on the certainty and uniqueness of the predictions a theory makes "Doubly decisive" tests, when predictions are both unique and certain, are those in In a similar formulation, Stephen Van Evera suggests that the probity of an em-

allgemeine Wissenschaftstheophe, Vol. 19, No. 2 (1988), pp. 205-231. In the philosophy of science, a theory that makes a unique prediction is said to have achieved "background Non-Ad-Hocness in the Methodology of Scientific Research Programs," Zeitschrift für Appraising Progress in IR Research," International Studies Quarterly, Vol. 46, No. 16. Colin Elman and Miriam Fendius Elman, "How Not to be Lakatos Intolerant (June 2002), p. 240, citing M. Carrier, "On Novel Facts: A Discussion of Criteria for

about the process or outcome of the case. An excellent example of this is zational theories had addressed the specific problem of nuclear weapons developed by a group of Berkeley scholars. 18 Neither of these two organi-Charles Perrow's normal accidents theory, and the High reliability theory nology. The latter problem has been addressed in two major theories: class of the ability of complex organizations to marlage hazardous techunauthorized use. 17 Sagan treats the safety of nuclear weapons as a sub-Scott Sagan's work on the safety of nuclear weapons from accidental or portant to find instances where explanations make safety, but Sagan argues they each have implications for this issue. In testing competing historical explanations of unique predictions case, then, it is im-

safety according to the normal accidents theorists gues, the safety requirements posited by the high reliability school are normal accident theory is more pessimistic. There is considerable overlap Neither theory excludes the possibility of a serious accident, though the impossible to implement in the view of normal accidents theorists.²⁰ high reliability theorists argue will promote safety will actually reduce tant respects. Sagan notes that "many of the specific conditions that the terest to Sagan, but he finds the theories to be at odds in several imporbetween the two in their predictions on the nuclear Sagan notes that both theories often make ambiguous predictions. 19 " Conversely, he arweapons cases of in-

about the level of safety achieved and the means through which it was at-Cuban Missile Crisis, in which the theories make different predictions Sagan identifies historical situations, including several aspects of the

the historical experiences of U.S. nuclear weapons command and control. ure—an accidental nuclear war—and then compare these predictions to predict about specific efforts to prevent the ultima Sagan notes that his goal was to "deduce what each theory should te safety system fail-

tions in the case of the Cuban Missile Crisis. normal accidents school provides more accurate answers to these quesbetter guide to understanding?"22 Sagan concludes that on the whole, the discovery of more hovel facts and new insights? Which one is therefore a compeling explanations of why it happened? Which theory leads to the Which theory probles better predictions of what happened and more

ing beyond his cases to U.S. nuclear weapons safety as a whole even in a very tough test, Sagan creates a convincing basis for generaliz the warnings of the normal accidents school. By arriving at this finding ures and near musses that did occur are comprehensible only in terms of on the basis of detailed process-tracing evidence that the lesser safety failons also favors the validity of the high reliability theory and poses a tough test for the normal accidents theory. Sagan nonetheless concludes States has adequate resources to spend on the safety of its nuclear weaplated from society and subject to strict military discipline, and the United to avoiding accidental nuclear war, U.S. nuclear forces personnel are isodictions of high reliability theorists. That U.S. leaders attach high priority weapons, which appears to conform more closely to the optimistic prenormal accidents theory in the impressive U.S. safety record with nuclear strophic—failures in the safety of nuclear weapons that have occurred. An interesting feature is Sagan's effort to construct a tough test for the theories in predicting and explaining the serious-though not catacidental nuclear wars, one can focus on the performance of the two Sagan's reasoning is as follows: given that there have been no ac

TESTING CONTINGENT GENERALIZATIONS

mine if these scope conditions might be justifiably broadened. and outcomes are as the theory predicts. Conversely, researchers can test cases within the specified domain of the theory to see if their processes specify the scope of domain of their generalizations. To what range of infor cases beyond the specified scope conditions of the theory to deterapply. Tests of contingent generalizations can then consist of examining and situational confexts do the findings apply? Here again, typological stitutional settings, cultural contexts, time periods, geographic settings, fying the configurations of variables or the types to which generalizations theorizing, as discussed in Chapter 11, provides a ready means for speci-To test contingent or typological generalizations, scholars must clearly

cerns Theda Skocpol's study of social revolutions in France, Russia, and subject of contention among theorists. An illuminating example con-The proper boundaries of contingent generalizations are a frequent

⁽Princeton N.J.: Princeton, University Press, 1993). 17. Scott D. Sagan, The Limits of Safety: Organizations, Accidents, and Nuclear Weapons

Not in Theory: Theoretical Challenges of 'High Reliability Grganizations,'" Journal of Public Administration Research and Theory, Vol. 1, No. 1 (January 1991), pp. 19-47. Charles Perrow, Normal Accidents; Living with High-Ris! Technologies (New York-Basic Books, 1984); and Todd LaPorte and Paula Consolini, Working in Practice but

Sagan, The Limits of Safety, pp. 13, 49.

Ibid., p. 45.

^{21.} Ibid., p. 51. A debate on Sagan's book was later published between Todd ber 1994), pp. 205-240. founder of the "normal accidents" school. A comment on their exchange is provided by Scott Sagan in Journal of Contingencies and Crisis Management, Vol. 2, No. 4 (December Sagan in Journal of Contingencies and Crisis Management, Vol. 2, No. 4 (December Sagan in Journal of Contingencies and Crisis Management.) LaPorte, a leading adherent of the "high reliability" school and Charles Perrow, the

Sagan, The Limits of Safety, p. 49

main of her theory.26 her theory, or criticize directly the way in which Skocppl defined the doout cases that fit within the domain Skocpol defined but that do not fit conditions Skocpol noted.24 Skocpol was careful to make her theory conseveral Latin American countries, the causes of revolu Skocpol outlines.25 A more appropriate critique of Skocpol would point Cuba in 1959), so these cases do not contravene the scope conditions that to three cases that Geddes raises (Mexico in 1910, Bolivia in 1952, and ination. Skocpol in fact explicitly states that her argument does not apply that her theory is not a general theory of revolutions, but a theory of revotingent, however, clearly indicating in her introduction and conclusion tries in the region, revolutions took place even in the absence of the pre-China. 23 Barbara Geddes critiques Skocpol's analysis by arguing that in lutions in wealthy agrarian states that had not experienced colonial domidentified were present, but no revolutions occurred, while in other countion that Skocpol

GENERALIZING ACROSS TYPES: TOUGH TESTS AND MOST-LIKELY LEAST-LIKELY, AND CRUCIAL CASES

It is difficult to judge the probative value of a particular test relative to the weight of prior evidence behind an existing theory. Harry Eckstein argues that "crucial cases" provide the most definitive type of evidence on a theory. He defines a crucial case as one "that must clustly fit a theory if one is to have confidence in the theory's validity, or conversely, must not fit equally well with any rule contrary to that proposed." He adds that "in a crucial case it must be extremely difficult, or clearly petulant, to dismiss any finding contrary to the theory as simply 'deviant' due to chance, or the operation of unconsidered factors)."

Eckstein notes the difficulties in identifying such crucial cases when theories and their predictive consequences are not precisely stated, but notes that the foremost problem is that truly crucial cases rarely occur in nature or the social world. Therefore, he suggests the alternative of tough tests which entail studying most-likely and least-likely cases. In a most-likely case, the independent variables posited by a theory are at values that strongly posit an outcome or posit an extreme outcome. In a least-likely case, the independent variables in a theory are at values that only weakly predict an outcome or predict a low-magnitude outcome. Most-likely cases, he notes, are tailored to cast strong doubt on theories if the theories do not fit, while least-likely cases can strengthen support for theories that fit even cases where they should be weak.

Many case study researchers have identified the cases they choose for study as most-likely or least-likely cases, but it is necessary to be explicit and systematic in determining this status. One must consider not only whether a case is most or least likely for a given theory, but whether it is also most or least likely for alternative theories. One useful means of doing so, as noted in Chapter 11 on typological theory, is to include a typological table that shows the values of variables in the case or cases studied for competing hypotheses. Such a table helps the researcher and reader identify which variables in a case may favor alternative theories, and helps the researcher to address systematically whether alternative theories make the same or different predictions on processes and outcomes in a given case.

In general, the strongest possible supporting evidence for a theory is a case that is least likely for that theory but most likely for all alternative theories, and one where the alternative theories collectively predict an outcome very different from that of the least-likely theory. If the least-likely theory turns out to be accurate, it deserves full credit for a prediction that cannot also be ascribed to other theories (though it could still be spurious and subject to an as-yet undiscovered theory). This might be called a toughest test case. Theories that survive such a difficult test may prove to be generally applicable to many types of cases,

Theda Skocpol, States and Social Revolutions: A Comparative Analysis of France Russia, and China (Cambridge, U.K.: Cambridge University Press, 1979).

^{24.} Barbara Geddes, "How the Cases You Choose Affect the Answers You Get: Selection Bias in Comparative Politics," in James A. Stimson, ed., Pdifical Analysis, Vol. 2 (Ann Arbor: University of Michigan Press, 1990). This example of the Skocpol-Geddes debate is from Collier and Mahoney, "Insights and Pitfalls," pp. 80–82.

Collier and Mahoney, "Insights and Pitfalls," p. 81.

^{26.} Along these lines, as Chapter 2 notes, there is a debate over whether new democracies should be excluded from tests of democratic peace theories. Some view the exclusion of new democracies from statistical tests of these theories as an arbitrary way to rescue the theories from anomalous findings. Others view the exclusion as legitimate, arguing that the causal mechanisms that create a democratic peace are only very weakly established in states in transition to democracy.

^{27.} Harry Eckstein, "Case Studies in Political Science," in Fred Greenstein and Nelson Polsby, eds., Handbook of Political Science, Vol. 7 (Reading, Mass.: Addison-Wesley, 1975), p. 118. McKeown suggests that in this regard case study researchers use an in-

formal version of Bayesian logic Timothy J. McKeown, "Case Studies and the Statistical World View," International Organization, Vol. 53, No. 1 (Winter 1999), pp. 161–190.

^{28.} Similarly, Margaret Mooney Marini and Burton Singer define the "gross strength" of a causal inference on the role of a variable X as the overall evidence consistent with "X causes V and they define the "net strength" on X as the gross strength of X discounted by the gross strength of alternative variables and their underlying theories. Margaret Mooney Marini and Burton Singer, "Causality in the Social Sciences," in Clifford Clogg, ed., Socialogical Methodology, Vol. 18 (1998), pp. 347-409. See also James Caporoso, "Research Design, Falsification, and the Qualitative-Quantitative Divide," American Political Science Review, Vol. 89, No. 2 (June 1995), p. 458.

vailing mechanisms. as they have already proven their robustness in the presence of counter

question its applicability to many types of cases. causal path or variable. A theory's failure in an easiest lest case calls into a deviant case and it might prove fruitful to look for an undiscovered theory and all the alternatives fail in such a case, it should be considered strength of this inference). This might be called an easiest test case. If a ables from other theories (again, left-out variables can still weaken the of the theory cannot be attributed to the countervailing influence of variries make the same prediction. If the prediction proves wrong, the failure most likely for that theory and for alternative theories, and all these theo-The best possible evidence for weakening a theory is when a case is

doubt on Truman's theory not just for the Netherlands, but more genages but a stable and cooperative democratic political culture. This cast however, Lijphart found a case with essentially no cross-cutting cleavgious cleavages, would lead to contentious politics, while cross-cutting mutually reinforcing social cleavages, such as coterminous class and reli-Arend Liphart's study of the Netherlands, which cast doubt on David cleavages would lead to cooperative social relations. In the Netherlands, Truman's theory of "cross-cutting cleavages."29 Truman had argued that One example of a theory that failed an easy test case comes from

other theories' predictions. and when the theory predicts outcomes that complement or contradict case at hand lies on the spectrum from most to least likely for that theory, should be careful to specify, for each alternative hypothesis, where the difficulty. Short of finding toughest or easiest test cases, researchers for particular theories, and so pose tests of an intermediate degree of Cases usually fall somewhere in between being most and least likely

model, a moderate test of the organizational process model, and a strong sence of Decision, is in some respects a strong test case for the rational actor test of the bureaucratic politics model.30 However, it is not the stronges For example, Graham Allison's study of the Cuban Missile Crisis, Es-

Allison's research questions is under consideration. possible test of any model and just how strong it is depends on which of

direction on the high likelihood of one theory and the low likelihood of must be taken into account and that they rarely all point in the same each of the models, but the general point is that many contextual factors add details on what makes each question a most- or least- likely case for tional concerns (rather than parochial institutional concerns). One could able limited possible adaptations. Bureaucratic politics should have been constrained by the president's role and the overriding importance of nainvolvement could and did modify procedures, but the short time availzational processes were a moderate constraint—the president's personal time to adapt its procedures. Bureaucratic politics should have been of U.S. decision-making that approximates the rational actor model. Organidirect involvement. On the other hand, the nature of the crisis favored information and short time period, but strengthened by the president's did?" rational actor considerations were constrained by the incomplete gets and missions. On the question of "Why did Kennedy react as he moderate importance given the stakes involved for Soviet military budvery strong because the Soviet Union was taking the initiative and had in Cuba?" rational actor considerations should have been strong given examples. On the question of "Why did the Soviet Union place missiles the clear strategic stakes. Organizational processes should not have been Let us consider the first two of Allison's three research questions as

causal mechanisms related to the extreme variable. be more useful for the heuristic purpose of identifying the outsized theory, they may constitute a problem of selection bias. Such a case may probative, and if they are incorrectly used to infer strong support for a for the importance of the extreme variable. Such easy tests are not very values, this may represent an easy test that provides only weak evidence competing explanations make the same prediction and are not at extreme treme value is not necessarily a definitive test. Rather, if the variables of It is important to note that a case in which one variable is at an ex-

Conclusion

study a few cases or even one case and uncover a new causal mechanism cal explanations of each case are possible. Alternatively, a researcher may cases that prove to have no common patterns, so that only unique historinumber or diversity of cases studied. A researcher may study diverse that proves applicable to a wide range of cases. Single cases can also cast Generalizing the results of case studies is not a simple function of the

in Social-Scientific Inference," American Political Science Review, Vol. 89, No. 2 (June Press, 1975); and David Truman, The Governmental Process: Political Interest and Public tion: Pluralism and Democracy in the Netherlands (Berkeley: University of California 1995), pp. 467–468; the referenced works are Arend Lijphart, The I Opinion (New York: Knopf, 1951). This example comes from Ronald Rogowski, "The Role of ? olitics of Accommodaheory and Anomaly

sile Crisis, 2nd ed. (Longman, N.Y.: Longman, 1999). Graham Allison and Philip Zelikow, Essence of Decision; Explaining the Cuban Mis

Part III
Alternative Methods and Select Issues