

to be exhaustive treatises. They are forward-looking personal viewpoints. One may often find that the lists of references do not include people whose work is often thought of as "the modern classics" in a particular topic; but this is in line with the basic intention to encourage a few chosen authors to put forward their own personal suggestions.

The final question is, how deep and far-reaching are the personal speculations offered about each of these challenging problems? Frankly, I should myself have liked to see people stick their necks out a bit further. This book is intended to be a bit more solid than that "collection of half-baked" ideas published a few years ago as *The Scientist Speculates*, edited by J. Good. At the same time its essential purpose, as I understand what the editors say in the preface, was to be stimulating. I suppose it is an inherent characteristic of biological systems that, when provided with a little pleasurable stimulation, they are not content to be grateful for what they have, but demand more. This book left me with rather that feeling.

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## The New Archeology

**Explanation in Archeology.** An Explicitly Scientific Approach. PATTY JO WATSON, STEVEN A. LEBLANC, and CHARLES L. REDMAN. Columbia University Press, New York, 1971. xxi, 192 pp., illus. \$6.

Watson, LeBlanc, and Redman undertake the formidable task of summarizing the many and divergent innovative trends of the last decade's "new archeology." Their book has three major foci: explanation, explanatory frameworks, and archeological applications of the two.

The authors' treatment of explanation follows the heavily deductive-nomological emphasis of many recent discussions of methodology in archeology. Having described this approach, they explore interfaces between it and more traditional archeological epistemologies. While the lack of rigor in the citation of examples of concepts such as *law* and *hypothesis* will bother some readers, this looseness must be seen in the context of the authors' use of the deductive-nomological approach as a basis for thinking about

verification and for organizing natural experiments rather than as a final solution to the truth problem.

A number of papers criticizing use of deductive-nomological research strategies have appeared in the last several years, many of them after this book was written. Watson, Redman, and LeBlanc handle some of the objections that have been raised, tackling, for example, the question of how an archeologist might handle the three or four culture-bearing strata that lie between him and the one stratum relevant to his research. However, meaningful comparison of the deductive-nomological strategy and those suggested by other archeologists is limited by the largely hypothetical nature of archeologists' discussions of these approaches. Research results that would permit a more definitive comparison of their relative effectiveness are largely wanting.

The discussion of explanatory frameworks is a concise summary of the more important concepts that archeologists are borrowing from ecology and general systems theory. While both of these theoretical frameworks are identified as rich sources of testable propositions, Watson, LeBlanc, and Redman are hard pressed to provide concrete examples of their use in archeology. This failure should not, however, be placed on their shoulders. For while ecology and, especially, general systems theory have become a part of the rhetoric of new archeology, legitimate applications are still few and far between, given that archeologists' traditional interest in the natural environment and subsistence theory should not be equated with ecology and that the notion that human behavior is organized and patterned cannot be equated with general systems theory.

At a more general level, one must question whether the authors' discussion of general systems theory and ecology exhausts the range of theoretical experimentation that has characterized the new archeology. Its beginnings must be placed within a Whatean cultural materialist mold. But major efforts to deal with more individually, behaviorally, and cognitively oriented theoretical frameworks have appeared in the works of some new archeologists. Even among ecologically oriented archeologists there are evident differences between those interested in "ecosystem" ecology and those who derive their inspiration from micro-processual approaches.

Finally, one must mention those ar-

cheologists who see the overzealous borrowing of theories and models from other disciplines as a limitation on our ability to understand the past. In many passages throughout their book, the authors emphasize the unique opportunity for the study of long-term behavioral and cultural change that archeological data provide and the need to construct models appropriate to this effort. Had they chosen to consider ecology and general systems theory in the context of building these models of change, the authors would surely have produced a more coherent explanatory framework.

In the final section of their book, the authors describe some of the major analytical models that new archeologists have employed. The models in question range from rather concise statistical ones to what would perhaps better be considered theories, locational analysis for example. The consideration of each model is insufficient for providing a working ability with it, but more than adequate for introducing the reader to the model and its applications.

The book is an excellent summary of the major issues that new archeologists have attempted to bring to the attention of their discipline. It provides a concise dictionary of new archeology's conceptual jargon. And it explicitly and implicitly identifies lines of research that must be pursued if the loftier of new archeologist's claims concerning our ability to understand the past are to be satisfied.

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## Origins of the Solar System

**From Plasma to Planet.** Proceedings of a symposium, Saltsjöbaden, Sweden, Sept. 1971. AINA ELVIUS, Ed. Wiley-Interscience, New York, and Almqvist and Wiksell, Stockholm, 1972. 390 pp., illus. \$25. Nobel Symposium 21.

The 21st Nobel Symposium dealt with chemical and physical processes that may have been important in the very early stages of formation of the solar system. The proceedings, edited by Aina Elvius, have now been published as *From Plasma to Planet*, a title that neatly summarizes the contents of the volume.

Of the 20-odd long papers presented, most of them by distinguished scholars

# From Plasma To Planet Nobel Symposium 21

**Ying Liu**



## **From Plasma To Planet Nobel Symposium 21:**

The Soviet-American Conference on Cosmochemistry of the Moon and Planets John Howard Pomeroy, Norman J. Hubbard, 1977     The Soviet-American Conference on Cosmochemistry of the Moon and Planets John H. Pomeroy, 1977

**The Study of Comets** Bertram Donn, 1976     The Study of Comets , 1976     *Fundamental Processes in Atomic Collision Physics* H. Kleinpoppen, J.S. Briggs, H.O. Lutz, 2012-12-06 The Proceedings of the Advanced study Institute on Fundamental Processes in Atomic Collision Physics Santa Flavia Italy September 10 21 1984 are dedicated to the memory of Sir Harrie r 1assey whose scientific achievements and life are reviewed herein by Sir David Bates At the first School on the above topic Maratea September 1983 Volume 103 in this series Harrie Massey presented the introductory lectures summarized the entire lecture program and presented an outlook on future developments in atomic collision physics In an after dinner speech Massey recalled personal reminiscences and historical events with regard to atomic collision physics to which he had contributed by initiating pioneering work and by stimulating and surveying this branch of physics over a period of almost six decades Participants in the Maratea School will always remember Harrie Massey as a charming and wonderful person who was most pleased to discuss with everyone students postdoctorals and senior scientists any topic in atomic collision physics Harrie Massey was a member of the Scientific Advisory Committee of the 1984 Santa Flavia School Before his death he expressed his interest in attending this second School devoted to the presentation of recent developments and highlights in atomic collision physics It is the desire of all authors to honor Harrie Massey with their contributions in these Proceedings     *Proceedings of the Shuttle-Based Cometary Science Workshop* , 1977     Nuclear Science Abstracts , 1974

Book catalog of the Library and Information Services Division Environmental Science Information Center. Library and Information Services Division, 1977     Design of Darkness D. S. Carroll, 2010-10-28 Design of Darkness tells the interlocking stories of two supremely gifted people one that ends in tragedy and one in triumph In the words of her fianc the medical doctor and narrator Larry Freeling Maryanna McKenna is the smartest and sweetest woman he has ever met She earns her doctorate in astronomy at 22 while Eddie Swinton her best friend from childhood learns from her father how to make a fortune in construction Maryanna is about to marry the narrator when mosquito borne encephalitis wrecks her intellect reducing her to infancy A woman who has mastered the most advanced mathematics for her doctoral dissertation is incapable of understanding even picture books for babies Maryannas parents guard her with the same great love for the next several decades that they provided through her upbringing Meanwhile Eddie Swinton flourishes when his life becomes the American Dream He marries the homecoming queen raises three additional homecoming queens and earns 100 million through construction in a life filled with beauty wit and charm By juxtaposing such extremes of fate Design of Darkness has few rivals for the way it turns existence back into a riddle that defies religious answers Tell it as a love story Tell it as a tragedy Tell it as a triumph Tell it as a mystery are the last words of Maryannas father to the narrator Larry pours his own

hearts blood and memories of love into a tale as powerful and haunting as the lives of Maryanna and Eddie

**Ices in the Solar System** J. Klinger, D. Benest, A. Dollfus, R. Smoluchowski, 2012-12-06 Audouin Dollfus Observatoire de Paris Section de Meudon 92195 Meudon FRfu CE The North Atlantic Treaty Organization NATO and in particular its Department of Scientific Affairs headed by Dr C Sinclair actively supports new fields of science The recent exploration of the outer parts of the Solar System by spacecraft focused the attention of a large community of scientists on the problem of ices which play a major role in the accretionary processes in space except for the close neighborhood of the Sun and of other stars NATO responded to this new interest by agreeing to sponsor an Advanced Research Workshop Ices in the Solar System provided a proper organizing body could be set up It was a pleasure to organize such a workshop jointly with Professor Roman Smoluchowski who had earlier organized similar conferences I knew from the experience of others who managed such meetings in the past that there would be much work but the opportunity of cooperating with Smoluchowski was very attractive and convinced me to agree If well organized the whole project promised to be more than rewarding for a large community of scientists both in the short run and in the long run by clarifying certain outstanding questions in astrophysics It became clear that a well organized international conference would attract top scientists and help unravel many fundamental problems

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