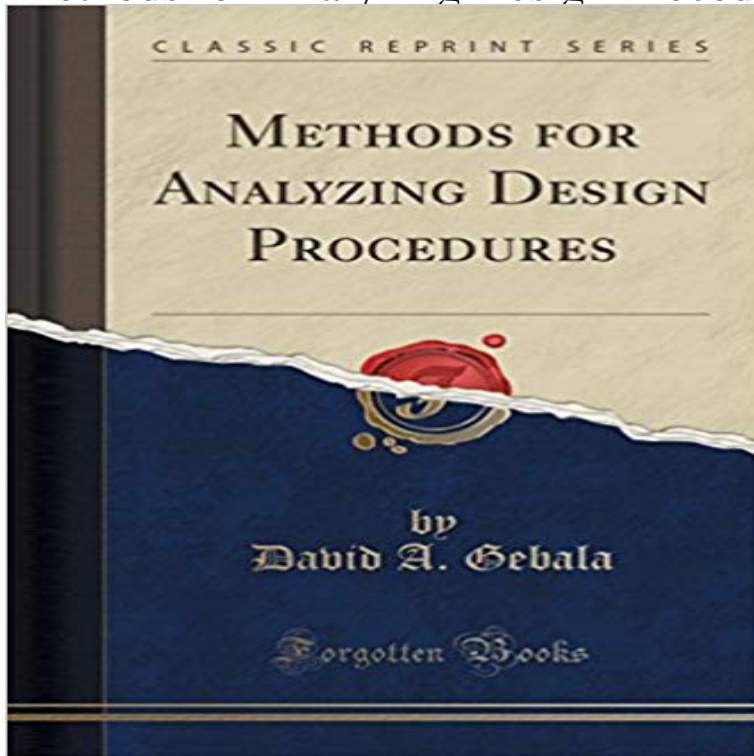


Methods for Analyzing Design Procedures (Classic Reprint)



Excerpt from *Methods for Analyzing Design Procedures* This paper surveys several common models which can be used to represent and study design procedures. A matrix representation of design is discussed in detail and both new and existing analysis tools are presented. Enhanced models are proposed to incorporate more information into the matrix representation and to allow more sophisticated analysis to be performed. The paper describes a testbed for the development and testing of algorithmic analysis tools and concludes with suggestions for further research into improving the design process. Product design is a complex activity requiring knowledge spanning many separate domains of study. Even the most rudimentary design activities demand scientific principles, engineering skills and often artistic creativity. Given the numerous inputs that feed into the design activity, it is not surprising that design presents a technical challenge even for relatively well understood products such as automobiles and airplanes. Because the vast amount of knowledge used in the design process is certainly more than any individual can manage, there is a need for clear representations which will aid our understanding of design procedures. In addition to the tremendous magnitude of information involved, the complexity with which this information flows contributes significantly to the difficulty of design. For example, a path of information flow within a design activity may be circular. Information circuits are a consequence of design iteration the revision of decisions which had been made using incomplete or imperfect information. Early decisions are checked and adjusted once complete information does become available, but an initial guess is necessary to initiate the iterative cycle of checking and adjusting. In an effort to improve the execution of

design procedures, the work reported here is aimed at [1] better representing the information requirements for the design activity, and [2] better understanding the structure of information flow in the design process. Our representation of the design process captures this information in a clear and concise manner which provides a global perspective on the information requirements at each stage of the design activity. To improve the management of the design process, this paper will present algorithms which can be applied to strategically structure the design process and to suggest improved design sequences and tasks. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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