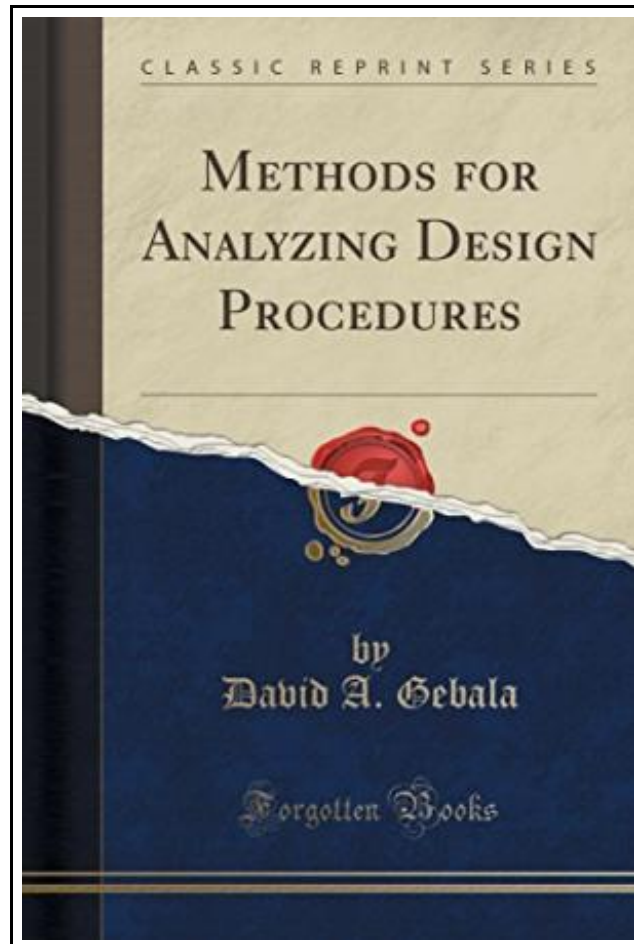


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Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from *Methods for Analyzing Design Procedures* This paper surveys several common models which can be used to represent 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...



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