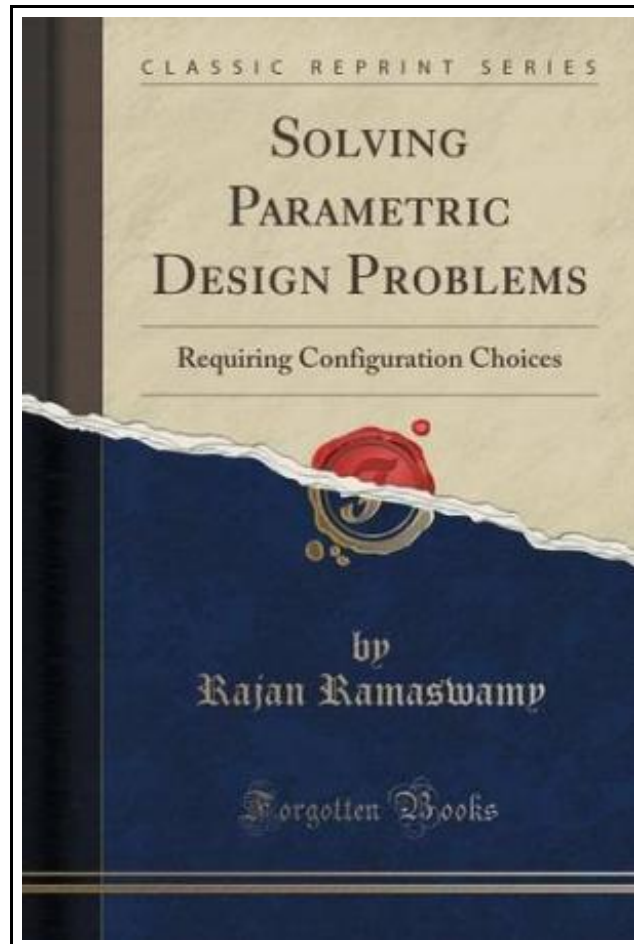# Solving Parametric Design Problems: Requiring Configuration Choices (Classic Reprint)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Solving Parametric Design Problems: Requiring Configuration Choices Many design tasks involve selection from a set of configurations followed by parametric optimization of the chosen configuration. The models used for these tasks tend to be large, non-linear and involve both discrete and continuous variables. It is rarely possible to use any single formal algorithm to solve these problems and as a result there are very few tools to help designers solve such problems. We believe computer environments that allow flexible access to a varied set of computer tools will help designers rapidly generate high quality solutions. We demonstrate our arguments on a design problem taken from a commercial auto manufacturer, propose a framework for dealing with the general class of problems and describe a preliminary implementation of a novel design system that integrates math programming, knowledge-based and graph theoretic tools. Keywords: Knowledge-based systems, mathematical programming, hybrid systems, graph theory, design. Number of Words (text): 5800, (abstract, appendices etc): 1100 1 Introduction This paper explores decision support tools for engineers who deal with complex input-output models. An input-output model is used to compute a set of performance parameters from a set of input parameters, based on a set of equations (see Figure 1). About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at 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...

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