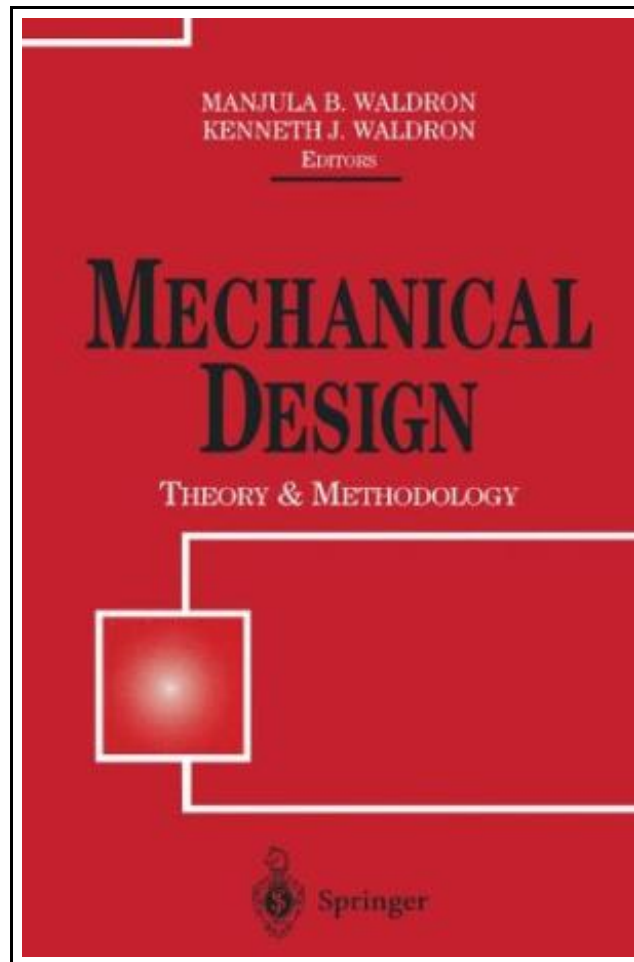


Mechanical Design: Theory and Methodology



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Book Condition: New. Publisher/Verlag: Springer, Berlin | This volume, Mechanical Design: Theory and Methodology, has been put together over the past four years. Most of the work is ongoing as can be ascertained easily from the text. One can argue that this is so for any text or monograph. Any such book is only a snapshot in time, giving information about the state of knowledge of the authors when the book was compiled. The chapters have been updated and are representative of the state of the art in the field of design theory and methodology. It is barely over a decade that design as an area of study was revived, mostly at the behest of industry, government, and academic leaders. Professor Nam Suh, then the head of the Engineering Directorate at the National Science Foundation, provided much of the impetus for the needed effort. The results of early work of researchers, many of whom have authored chapters in this book, were fundamental in conceiving the ideas behind Design for X or DFX and concurrent engineering issues. The artificial intelligence community had a strong influence in developing the required computer tools mainly because the field had a history of interdisciplinary work. Psychologists, computer scientists, and engineers worked together to understand what support tools will improve the design process. While this influence continues today, there is an increased awareness that a much broader community needs to be involved. | 1. Introduction.- 2. The Influence of the Designer's Expertise on the Design Process.- 3. Methods of Studying Mechanical Design.- 4. Design Characterizations.- 5. An Observational Methodology for Studying Group Design Activity.- 6. Representation of Conceptual Mechanical Design Knowledge.- 7. Configuring Systems Using Available Assets: A Conceptual, Decision-Based Perspective.- 8. Group Decision Making in Design.- 9. Routineness Revisited.- 10....

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