



# Standards for Engineering Design and Manufacturing (Mechanical Engineering)

By Wasim Ahmed Khan, S.I., Abdul Raouf

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Most books on standardization describe the impact of ISO and related organizations on many industries. While this is great for managing an organization, it leaves engineers asking questions such as “what are the effects of standards on my designs?” and “how can I use standardization to benefit my work?” **Standards for Engineering Design and Manufacturing** provides hands-on knowledge for incorporating standards into the entire process from design bench to factory floor.

The book’s five self-contained sections consider the scope of design and manufacturing, standards for the design of discrete products, standards for the manufacture of discrete products, standards for the use of discrete products, as well as support standards. The authors survey in detail the major standards-setting organizations and outline the procedure for developing standards. They consider standards from the perspective of product, equipment, and end-user, using this as a platform to explain the economic benefits of standardization. Case studies in every section illustrate the concepts and offer practical insight for using standards in CAD/CAM, selection of components, process planning, human/machine interaction, and computer interfacing.

With its modular approach and practical wisdom based on the authors’ years of broad experience, **Standards for Engineering Design and Manufacturing** supplies the tools to incorporate standards into every stage of design and manufacturing.

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### **Editorial Review**

#### **Review**

"Professors Khan and Raouf have recognized the need for a book that meets the requirements of undergraduate students, graduate students, and engineering professionals in the cross-disciplinary aspects of mechanical engineering that relate to computer-based design and manufacture and, in particular, focuses on the need to provide a vehicle for cross-disciplinary integration through standards and codes of practice. "this book focuses on the generic principles that underpin the formation and establishment of international standards." [It] addresses the concepts associated with the ways in which new products are conceived and realized and discusses how standards are used, to best advantage, in this process. This book makes good use of examples both to introduce concepts and to demonstrate their use. It is a valuable reference text for both undergraduate and graduate students and for practicing engineers." -D.R. Hayhurst, Sc.D. (Cantab), FR.Eng., Professor of Design, Manufacture, and Materials, The University of Manchester, UK, from the Foreword

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