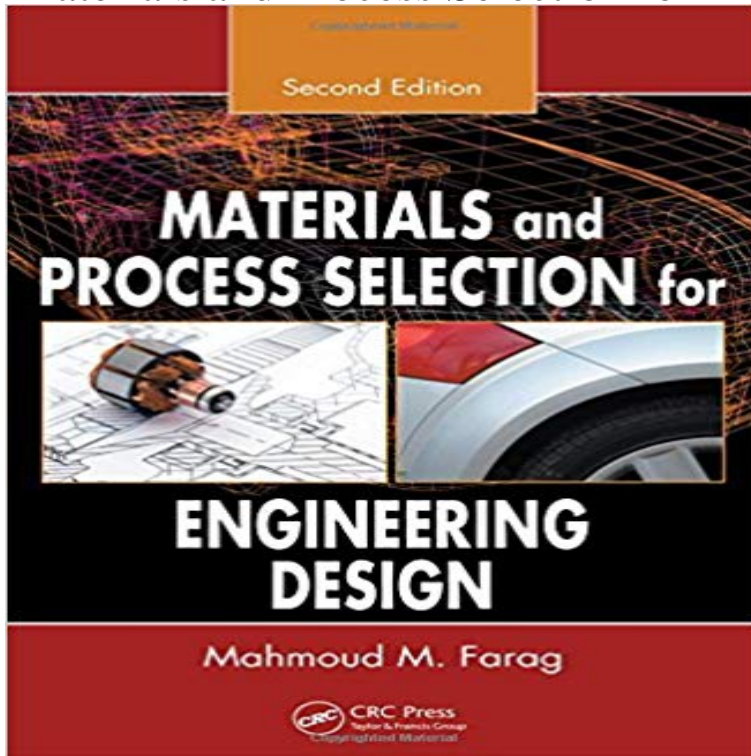


Materials and Process Selection for Engineering Design, Second Edition



Taking a practical approach, this work illustrates how design, materials, and process selection must mesh together and be considered along with economic and environmental analysis, when developing a new product or changing an existing model. It also considers the trade-offs that must sometimes be made. This second edition adds and revises topics such as environmental, function, and aesthetic considerations in design; environmental impact assessment of materials and processes; life cycle and recycling economics; and materials substitution. The book begins with an intro that reviews stages of product development. This is followed by three sections covering? Mechanical failures, environmental degradation, and materials that resist different types of failure Elements of engineering design and the effect of material properties and manufacturing processes on the design of components Economic and environmental aspects of materials and manufacturing processes, as well as quantitative and computer-assisted methods for screening, ranking alternatives, and deciding on the optimum material/process combination Examples and detailed case studies illustrating practical applications, as well as materials selection and substitution from a variety of industries, are included. Each chapter begins with clear objectives and ends with a summary, review questions, and bibliography. Appendices supply tables of composition and properties and a glossary of technical terms. SI units are used; with Imperial units given when possible. This student-friendly text demonstrates how to balance design, materials, process selection, and economic and environmental analysis to optimize manufacturing processes for a given component. The author maintains a book website which features PowerPoint presentations for each chapter, and access to a solutions manual

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