



# Exploring Engineering: An Introduction to Engineering and Design

*Philip Kosky, Robert T. Balmer, William D. Keat, George Wise*

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*Exploring Engineering, Fourth Edition: An Introduction to Engineering and Design* presents the emerging challenges engineers face in a wide range of areas as they work to help improve our quality of life. In this classic textbook, the authors explain what engineers actually do, from the fundamental principles that form the basis of their work to the application of that knowledge within a structured design process. The text itself is organized into three parts: Lead-On, Minds-On, Hands-On. This organization allows the authors to give a basic introduction to engineering methods, then show the application of these principles and methods, and finally present a design challenge. This book is an ideal introduction for anyone interested in exploring the various fields of engineering and learning how engineers work to solve problems.

- NEW: Chapters on Aeronautical Engineering, Industrial Engineering, and Design Teams
- NEW: Expanded content in the chapters "Defining the Problem," "Generation of 'Alternative Concepts,'" and "Detailed Design"
- NEW: Material on sustainability issues in engineering
- Introduces students to the engineering profession, emphasizing the fundamental physical, chemical, and material bases for all engineering work
- Includes an Engineering Ethics Decision Matrix used throughout the book to pose ethical challenges and explore decision-making in an engineering context
- Lists of "Top Engineering Achievements" and "Top Engineering Challenges" help put the material in context and show engineering as a vibrant discipline involved in solving societal problems
- Companion Web site includes links to several new drawing supplements, including "Free-hand Engineering Sketching," (detailed instructions on free-hand engineering sketching); "AutoCAD Introduction," (an introduction to the free AutoCAD drawing software); and "Design Projects," (new freshman-level design projects that complement the "Hands-On" part of the textbook).



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