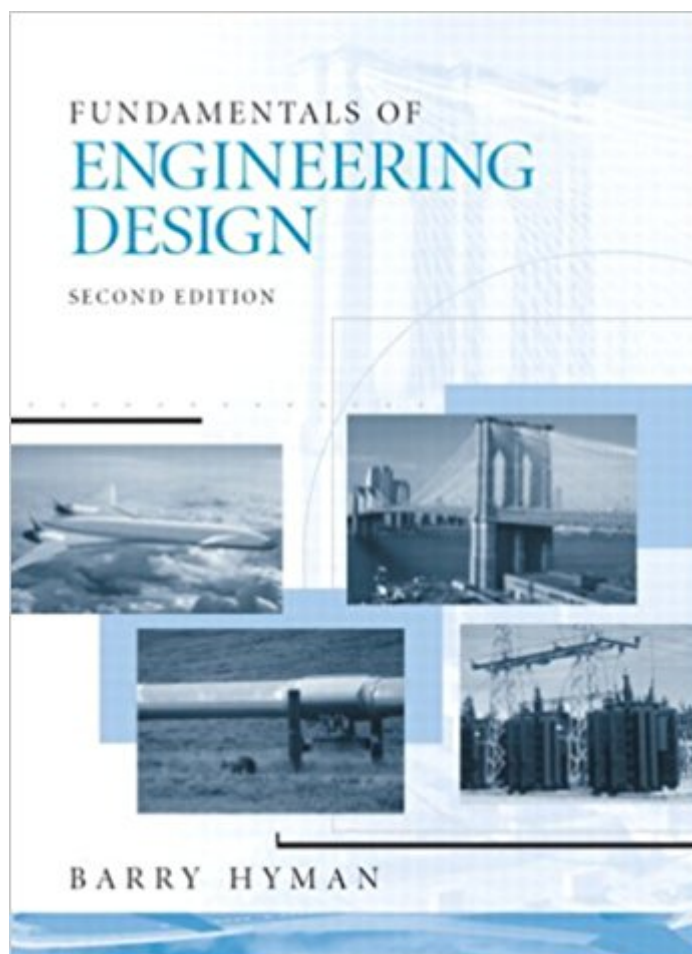


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Fundamentals Of Engineering Design (2nd Edition)



Synopsis

This book provides extensive coverage of fundamental engineering design topics, embedded in a real-world context, while avoiding discipline-specific specialty topics. Fundamentals of Engineering Design includes extensive coverage of the steps taken when formulating design problems, global optimization, and the role of the Internet in Mechanical Engineering. A useful reference for professionals in Mechanical Engineering.

Book Information

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Engineering design concepts are as fundamental to undergraduate engineering education as the traditional sciences. This comprehensive text provides well-organized, flexible coverage of engineering design fundamentals including problem formulation, concept generation, project planning, engineering economics, decision making, and optimization. These topics are developed from an interdisciplinary perspective that is independent of level of technical sophistication. Thus the book can be used in design courses within any engineering discipline and at any level from first year to capstone design. New Features: This second edition significantly expands upon the extensive graphics, worked-out examples, and large set of exercises and design projects contained in the first edition, while retaining the informal reading style praised by students and faculty. Substantially expanded coverage of the professional, social, and environmental context of engineering design, including several new case studies More than three dozen new worked-out example problems Over 70 new end-of-chapter exercises Revised and expanded treatment of the problem formulation

phase of design New sections on optimization software and integer programming Companion Website with hundreds of Microsoft PowerPoint slides and an innovative interactive Instructor's Manual containing hundreds of exercises and 50 design projects coded with respect to design and analysis skills, level of technical sophistication, and engineering discipline.

Barry Hyman is Professor of Mechanical Engineering and Public Affairs at the University of Washington, Seattle, where he currently is Leader of the Design Faculty Group. In addition to his several decades of teaching and research on engineering design, Professor Hyman conducts research on the energy and environmental characteristics of manufacturing processes. He is Associate Editor of Energy—The International Journal, published by Elsevier Science. Professor Hyman is a Fellow of the American Society of Mechanical Engineers. He received the ASME Ralph Coates Roe Medal in 2000 for his outstanding contribution toward a better public understanding and appreciation of the engineer's worth to contemporary society. He previously served ASME as Vice-President for Government Relations and Vice-President for the Northwest International Region. His other awards include the ASEE Centennial Medallion for significant and lasting contributions to engineering education and the ASEE Chester F. Carlson Award for Innovation in Engineering Education. In 1995 the Puget Sound Engineers Council named him Academic Engineer of the Year.

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