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Good design is the key to the manufacture of successful commercial products. It encompasses creativity, technical ability, communication at all levels, good management and the ability to mould these attributes together. There are no single answers to producing a well designed product. There are however tried and tested principles which, if followed, increase the likely success of any final ...

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Ken Hurst. Elsevier Science, Jun 11, 1999 - Technology & Engineering - 168 pages.

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The title of this book is Engineering Design Principles and it was written by Ken Hurst. This particular edition is in a Paperback format. This books publish date is Jun 11, 1999 and it has a suggested retail price of \$103.00. It was published by Butterworth-Heinemann and has a total of 168 pages in the book.

Engineering Design Principles by Ken Hurst (9780340598290)

## PRINCIPLES OF ENGINEERING DESIGN SYNOPSIS

Engineering requires that much time and skill is spent ensuring the delivery of products, projects or services to a required performance and quality specification, on time and within budget. A great deal of the education and training of the engineer is devoted to ensuring his or her ability to

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Professor Ken Wallace FEng Engineering Design Centre  
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Good design is the key to the manufacture of successful commercial products. It encompasses creativity, technical ability, communication at all levels, good management and the ability to mould these attributes together. There are no single answers to producing a well designed product. There are however tried and tested principles which, if followed, increase the likely success of any final product. Engineering Design Principles introduces these principles to engineering students and professional engineers. Drawing on historical and familiar examples from the present, the book provides a stimulating guide to the principles of good engineering design. The comprehensive coverage of this text makes it invaluable to all undergraduates requiring a firm foundation in the subject. Introduction to principles of good engineering design like: problem identification, creativity, concept selection, modelling,

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design management and information gathering Rich selection of historical and familiar present examples

This proven and internationally recognized text teaches the methods of engineering design as a condition of successful product development. It breaks down the design process into phases and then into distinct steps, each with its own working methods. The book provides more examples of product development; it also tightens the scientific bases of its design ideas with new solution fields in composite components, building methods, mechatronics and adaptronics. The economics of design and development are covered and electronic design process technology integrated into its methods. The book is sharply written and well-illustrated.

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The aim of the first two German editions of our book *Konstruktionslehre* (Engineering Design) was to present a comprehensive, consistent and clear approach to systematic engineering design. The book has been translated into five languages, making it a standard international reference of equal importance for improving the design methods of practising designers in industry and for educating students of mechanical engineering design. Although the third German edition conveys essentially the same message, it contains additional knowledge based on further findings from design research and from the application of systematic design methods in practice. The latest references have also been included. With these additions the book achieves all our aims and represents the state of the art. Substantial sections remain identical to the previous editions. The main extensions include: - a

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discussion of cognitive psychology, which enhances the creativity of design work; - enhanced methods for product planning; - principles of design for recycling; - examples of well-known machine elements\*; - special methods for quality assurance; and - an up-to-date treatment of CAD\*.

A systematic guide to product design and safety from an ethical engineering perspective This hands-on textbook offers a holistic approach to product safety and engineering ethics across many products, fields, and industries. The book shows, step by step, how to “ design in ” safety characteristics early in the engineering process using design for product safety (DfPS) methods. Written by a P.E. and skilled educator with industry experience, Engineering Ethics and Design for Product Safety addresses all aspects of the

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product system from the perspective of an active product-safety engineering manager. You will get detailed case studies, real-world examples, and side discussions that provide a deep dive into key topics. Coverage includes: Product safety Engineering ethics Product-safety components Hazards, risks, accidents, and outcomes A product-design process Product-safety engineering Engineering-design guidance Product-safety facilitators Product-safety engineering methods Product-safety defects and recalls

\* WALL STREET JOURNAL BESTSELLER \* An insider's account of Apple's creative process during the golden years of Steve Jobs. Hundreds of millions of people use Apple products every day; several thousand work on Apple's campus in Cupertino, California; but only a handful sit at the drawing board. Creative Selection

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recounts the life of one of the few who worked behind the scenes, a highly-respected software engineer who worked in the final years of the Steve Jobs era—the Golden Age of Apple. Ken Kocienda offers an inside look at Apple ' s creative process. For fifteen years, he was on the ground floor of the company as a specialist, directly responsible for experimenting with novel user interface concepts and writing powerful, easy-to-use software for products including the iPhone, the iPad, and the Safari web browser. His stories explain the symbiotic relationship between software and product development for those who have never dreamed of programming a computer, and reveal what it was like to work on the cutting edge of technology at one of the world's most admired companies.

Kocienda shares moments of struggle and success, crisis and collaboration, illuminating each with lessons learned over his Apple

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career. He introduces the essential elements of innovation—inspiration, collaboration, craft, diligence, decisiveness, taste, and empathy—and uses these as a lens through which to understand productive work culture. An insider's tale of creativity and innovation at Apple, *Creative Selection* shows readers how a small group of people developed an evolutionary design model, and how they used this methodology to make groundbreaking and intuitive software which countless millions use every day.

This book brings together some of the most influential pieces of research undertaken around the world in design synthesis. It is the first comprehensive work of this kind and covers all three aspects of research in design synthesis: - understanding what constitutes and influences synthesis; - the major approaches to synthesis; - the

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diverse range of tools that are created to support this crucial design task. With its range of tools and methods covered, it is an ideal introduction to design synthesis for those intending to research in this area as well as being a valuable source of ideas for educators and practitioners of engineering design.

This proven and internationally recognized text teaches the methods of engineering design as a condition of successful product development. It breaks down the design process into phases and then into distinct steps, each with its own working methods. The book provides more examples of product development; it also tightens the scientific bases of its design ideas with new solution fields in composite components, building methods, mechatronics and adaptronics. The economics of design and development are

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covered and electronic design process technology integrated into its methods. The book is sharply written and well-illustrated.

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and

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storage of fluids.

A collection of realistic engineering adventure stories. Ken Hardman connects the design and development process taught in engineering school to the exciting challenges faced every day in real engineering practice.--Back cover.

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