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Being a Mechanical Engineering undergraduate at one of the best universities in the world, this book has helped me to great lengths.

Throughout several design projects that I have encountered during my course of study, Mechanical Design by Peter Childs has been an exemplary reference containing all the solutions pertaining to design and engineering.

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Lead in Engineering Design and was
the founding Head of the Dyson
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interests include: creativity; the application of creativity tools; mechanical and product design; robotics; rotating flow, temperature and its measurement, sustainable energy component, concept and system design.

Home - Professor Peter Childs

Professor Peter Childs is Head of the Dyson School of Design Engineering at Imperial College London. His professional interests include creativity tools and innovation, design, heat transfer, rotating flow, and sustainable energy.

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This book introduces the subject of total design, and introduces the design and selection of various common mechanical engineering components and machine elements. These provide "building blocks", with which the engineer can practice his or her art. The approach adopted for defining design follows that developed by the SEED (Sharing Experience in Engineering Design) programme where design is viewed as "the total activity necessary to provide a product or process to meet a market need." Within this framework the book concentrates on developing detailed mechanical design skills in the areas of bearings, shafts, gears, seals, belt and chain drives, clutches and brakes, springs and fasteners. Where standard

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components are available from manufacturers, the steps necessary for their specification and selection are developed. The framework used within the text has been to provide descriptive and illustrative information to introduce principles and individual components and to expose the reader to the detailed methods and calculations necessary to specify and design or select a component. To provide the reader with sufficient information to develop the necessary skills to repeat calculations and selection processes, detailed examples and worked solutions are supplied throughout the text. This book is principally a Year/Level 1 and 2 undergraduate text. Pre-requisite skills include some year one undergraduate mathematics, fluid mechanics and heat transfer, principles of materials,

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Childs Statics. However, as the subjects are introduced in a descriptive and illustrative format and as full worked solutions are provided, it is possible for readers without this formal level of education to benefit from this book. The text is specifically aimed at automotive and mechanical engineering degree programmes and would be of value for modules in design, mechanical engineering design, design and manufacture, design studies, automotive power-train and transmission and tribology, as well as modules and project work incorporating a design element requiring knowledge about any of the content described. The aims and objectives described are achieved by a short introductory chapters on total design, mechanical engineering and machine elements followed by ten

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chapters on machine elements covering: bearings, shafts, gears, seals, chain and belt drives, clutches and brakes, springs, fasteners and miscellaneous mechanisms. Chapters 14 and 15 introduce casings and enclosures and sensors and actuators, key features of most forms of mechanical technology. The subject of tolerancing from a component to a process level is introduced in Chapter 16. The last chapter serves to present an integrated design using the detailed design aspects covered within the book. The design methods where appropriate are developed to national and international standards (e.g. ANSI, ASME, AGMA, BSI, DIN, ISO). The first edition of this text introduced a variety of machine elements as building blocks with which design of mechanical devices can be

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undertaken. The approach adopted of introducing and explaining the aspects of technology by means of text, photographs, diagrams and step-by-step procedures has been maintained. A number of important machine elements have been included in the new edition, fasteners, springs, sensors and actuators. They are included here. Chapters on total design, the scope of mechanical engineering and machine elements have been completely revised and updated. New chapters are included on casings and enclosures and miscellaneous mechanisms and the final chapter has been rewritten to provide an integrated approach. Multiple worked examples and completed solutions are included.

With this volume, Peter Childs

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introduces mechanical design from the very basic principles and components, before moving on to develop skills to a practical level.

Mechanical Design: Theory and Applications, Third Edition introduces the design and selection of common mechanical engineering components and machine elements, hence providing the foundational "building blocks" engineers need to practice their art. In this book, readers will learn how to develop detailed mechanical design skills in the areas of bearings, shafts, gears, seals, belt and chain drives, clutches and brakes, and springs and fasteners. Where standard components are available from manufacturers, the steps necessary for their specification and selection are thoroughly developed. Descriptive and

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illustrative information is used to introduce principles, individual components, and the detailed methods and calculations that are necessary to specify and design or select a component. As well as thorough descriptions of methodologies, this book also provides a wealth of valuable reference information on codes and regulations. Presents new material on key topics, including actuators for robotics, alternative design methodologies, and practical engineering tolerancing Clearly explains best practice for design decision-making Provides end-of-chapter case studies that tie theory and methods together Includes up-to-date references on all standards relevant to mechanical design, including ASNI, ASME, BSI, AGMA, DIN and ISO

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Fluid Mechanics: An Intermediate Approach addresses the problems facing engineers today by taking on practical, rather than theoretical problems. Instead of following an approach that focuses on mathematics first, this book allows you to develop an intuitive physical understanding of various fluid flows, including internal compressible flows with simultaneous area change, friction, heat transfer, and rotation. Drawing on over 40 years of industry and teaching experience, the author emphasizes physics-based analyses and quantitative predictions needed in the state-of-the-art thermofluids research and industrial design applications. Numerous worked-out examples and illustrations are used in the book to demonstrate various problem-solving techniques.

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The book covers compressible flow with rotation, Fanno flows, Rayleigh flows, isothermal flows, normal shocks, and oblique shocks; Bernoulli, Euler, and Navier-Stokes equations; boundary layers; and flow separation. Includes two value-added chapters on special topics that reflect the state of the art in design applications of fluid mechanics Contains a value-added chapter on incompressible and compressible flow network modeling and robust solution methods not found in any leading book in fluid mechanics Gives an overview of CFD technology and turbulence modeling without its comprehensive mathematical details Provides an exceptional review and reinforcement of the physics-based understanding of incompressible and compressible flows with many worked-out examples and problems from real-

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Fluid Mechanics: An Intermediate Approach uniquely aids in the intuitive understanding of various fluid flows for their physics-based analyses and quantitative predictions needed in the state-of-the-art thermofluids research and industrial design applications.

The 24th Leeds-Lyon Symposium was held in London from 4th-6th September 1997, where it was hosted by the Imperial College of Science, Technology and Medicine. The meeting addressed the topic of "Tribology for Energy Conservation" and attracted a wide range of stimulating papers and speakers. Some 150 delegates from nineteen countries attended and about sixty papers were presented in fifteen sessions. These covered the topics of

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lubricants, wear, friction reduction, hydrodynamics, elastohydrodynamic lubrication, surface roughness, manufacturing, component life (including condition monitoring), and automotive aspects.

Rotating flow is critically important across a wide range of scientific, engineering and product applications, providing design and modeling capability for diverse products such as jet engines, pumps and vacuum cleaners, as well as geophysical flows. Developed over the course of 20 years' research into rotating fluids and associated heat transfer at the University of Sussex Thermo-Fluid Mechanics Research Centre (TFMRC), Rotating Flow is an indispensable reference and resource for all those working within the gas

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Childs *Rotational Machinery*

turbine and rotating machinery industries. Traditional fluid and flow dynamics titles offer the essential background but generally include very sparse coverage of rotating flows—which is where this book comes in. Beginning with an accessible introduction to rotating flow, recognized expert Peter Childs takes you through fundamental equations, vorticity and vortices, rotating disc flow, flow around rotating cylinders and flow in rotating cavities, with an introduction to atmospheric and oceanic circulations included to help deepen understanding. Whilst competing resources are weighed down with complex mathematics, this book focuses on the essential equations and provides full workings to take readers step-by-step through the theory so they can concentrate on the

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Childs Rotating Flows: A Manual
practical applications. A detailed yet accessible introduction to rotating flows, illustrating the differences between flows where rotation is significant and highlighting the non-intuitive nature of rotating flow fields
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Concise summaries of the results of important research and lists of

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references included to direct readers
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The tribological properties of relatively moving surfaces are greatly influenced by thin surface films which are of considerable importance in the design of machine components. From Victorian days when working lubricant films were calculated in tens of micrometres, to today when molecular dynamics simulations and even experiments are beginning to look at nanometre, single molecule thick films, the study of surfaces which is the tribologists' challenge has moved to finer and finer scales. The 66 papers in this volume provide reviews across the tribological field with thin films as their theme, giving a comprehensive and concise description on topics ranging from coatings and surface

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modification to bio-tribology. The articles provide the reader with an outline of their most effective application and potential uses in new technologies. The volume will be of interest not only to research workers and design engineers in the fields of new machine developments and lubrication, but also to engineers and students specialising in tribology.

A multidisciplinary introduction to engineering design using real-life case studies. Case Studies in Engineering Design provides students and practising engineers with many practical and accessible case studies which are representative of situations engineers face in professional life, and which incorporate a range of engineering disciplines. Different methodologies of approaching

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engineering design are identified and explained prior to their application in the case studies. The case studies have been chosen from real-life engineering design projects and aim to expose students to a wide variety of design activities and situations, including those that have incomplete, or imperfect, information. This book encourages the student to be innovative, to try new ideas, whilst not losing sight of sound and well-proven engineering practice. A multidisciplinary introduction to engineering design. Exposes readers to wide variety of design activities and situations. Encourages exploration of new ideas using sound and well-proven engineering practice.

These proceedings review progress in the development of lubricants and in

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the understanding of the phenomena of lubrication. The contents include papers on the impact of automotive technology and environmental factors upon lubricant requirements, elasto-hydrodynamic lubrication, boundary lubrication, machine elements, bio-tribology, metal forming, rheology, lubricated wear and very thin film (nano metre) lubrication. Presented by leading scientists from 22 different countries, these proceedings provide an up-to-date review of developments in this field.

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