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This one-stop Mega Reference eBook brings together the essential professional reference content from leading international contributors in the automotive field. An expansion the Automotive Engineering print edition, this fully searchable electronic reference book of 2500 pages delivers content to meet all the main information needs of engineers working in vehicle design and development. Material ranges from basic to advanced topics from engines and transmissions to vehicle dynamics and modelling. * A fully searchable Mega Reference Ebook, providing all the essential material needed by Automotive Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries, fuel cells, electrolyzers, supercapacitors, and photo-electrochemical cells. With a focus on the environmental and economic impact of electrochemical power sources, this five-volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike. Covers the main types of power sources, including their operating principles, systems, materials, and applications Serves as a primary source of information for electrochemists, materials scientists, energy technologists, and engineers Incorporates nearly 350 articles, with timely coverage of such topics as environmental and sustainability considerations

This book focuses on various challenges, solutions, and emerging technologies in the operation, control, design, optimization, and protection of microgrids in the presence of hybrid renewable energy sources and electric vehicles. This book provides an insight into the potential applications and recent development of different types of renewable energy systems including AC/DC microgrids, RES integration issues with the grid, electric vehicle technology, etc. The book serves as an interdisciplinary platform for the audience working in the focused area to access information related to energy management, modeling, and control. It covers fundamental knowledge, design, mathematical modeling, applications, and practical issues with sufficient design problems and case studies with detailed planning aspects. This book will serve as a guide for researchers, academicians, practicing engineers, professionals, and scientists, as well as for graduate and postgraduate students working in the area of various applications of RES, Electric Vehicles, and AC/DC Microgrid.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Owing to their high-power density, long life, and environmental compatibility, supercapacitors are emerging as one of the promising storage technologies, but with challenges around energy and power requirements for specific applications. This book focusses on supercapacitors including details on classification, charge storage mechanisms, related kinetics, and thermodynamics. Materials used as electrodes, electrolytes, and separators, procedures followed, characterization methods, and modeling are covered, along with emphasis on related applications. Features: Provides an in-depth look at supercapacitors, including their working concepts and design Reviews detailed explanation of various characterization and modeling techniques Give special focus to the application of supercapacitors in major areas of environmental as well as social importance Covers cyclic voltammetry, charging-discharging curves, and electrochemical impedance spectroscopy as characterization techniques Includes a detailed chapter on historical perspectives on the evolution of supercapacitors This book is aimed at researchers and graduate students in materials science and engineering, nanotechnology, chemistry in batteries, and physics.

From Roentgen to Rembrandt, Hounsfield to Hollywood and Vesalius to videogames, Imagining Imaging explores the deeply entwined relationship between art (and visual-based culture) and radiology / medical imaging. Including artworks from numerous historical eras representing varied geographic locations and visual traditions, alongside a diverse range of contemporary artists, Dr Jackson argues that the foundations of medical image construction and interpretation were laid down in artistic innovations dating back hundreds and thousands of years. Since the discovery of X-rays, artists and moviemakers have, in turn, drawn rich inspiration from radiographic imagery and concepts, but the process of cross-pollination between art and science has continued, with creative endeavour continuing to mould medical imaging examinations to this day. Blending a unique mix of art, science and medical history, together with aspects of visual neurophysiology and psychology, Imagining Imaging is essential reading for radiologists, radiographers and artists alike. Peppered with familiar TV and film references, personal insights into the business of image interpretation, and delivered in an accessible and humorous style, the book will also appeal to anyone who enjoys looking at pictures. Key features: Engaging synthesis of art and medical history, combined with anecdotes and experiences from a working clinical radiologist Diverse range of visual reference points including astronomy, botany and cartography, alongside comprehensive discussion of medical imaging modalities including plain radiography, ultrasound, CT and MRI 200 full colour illustrations

First published in 1989 as Tuning New Generation Engines, this best-selling book has been fully updated to include the latest developments in four-stroke engine technology in the era of pollution controls, unleaded and low-lead petrol, and electronic management systems. It explains in non-

technical language how modern engines can be modified for road and club competition use, with the emphasis on power and economy, and how electronic management systems and emission controls work.

Homogeneous charge compression ignition (HCCI)/controlled auto-ignition (CAI) has emerged as one of the most promising engine technologies with the potential to combine fuel efficiency and improved emissions performance, offering reduced nitrous oxides and particulate matter alongside efficiency comparable with modern diesel engines. Despite the considerable advantages, its operational range is rather limited and controlling the combustion (timing of ignition and rate of energy release) is still an area of on-going research. Commercial applications are, however, close to reality. HCCI and CAI engines for the automotive industry presents the state-of-the-art in research and development on an international basis, as a one-stop reference work. The background to the development of HCCI / CAI engine technology is described. Basic principles, the technologies and their potential applications, strengths and weaknesses, as well as likely future trends and sources of further information are reviewed in the areas of gasoline HCCI / CAI engines; diesel HCCI engines; HCCI / CAI engines with alternative fuels; and advanced modelling and experimental techniques. The book provides an invaluable source of information for scientific researchers, R&D engineers and managers in the automotive engineering industry worldwide. Presents the state-of-the-art in research and development on an international basis An invaluable source of information for scientific researchers, R&D engineers and managers in the automotive engineering industry worldwide Looks at one of the most promising engine technologies around

In this book, the reader learns the essential differences to the passenger car through the analysis divided according to assemblies. This gives him the tools to apply the detailed knowledge acquired to the design and development of competition vehicles. In the case of internal combustion engines, the focus is on performance-enhancing measures for racing vehicles. From the choice of the number of cylinders to the intake system to the exhaust system, the lever can be applied to every assembly. For electric drives, the traction battery, cell selection, cooling and operating strategy are considered in more detail. Energy recovery systems are an interesting enhancement for hybrid vehicles and all-electric powertrains, especially in strategic considerations for racing. Finally, gearboxes are needed independently of the drive source, albeit matched to it, so that the full potential can be exploited. The detailed, in-depth presentation makes this work just as suitable for the interested motorsport enthusiast as it is for the engineer in the field who is addressing the issues surrounding race car powertrains. The formula material is prepared in such a way that the book can also be used as a reference work.