

Engine Mivec

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Torque Contempo Media
The Japanese motor industry worldwide.
Popular Science Butterworth-Heinemann
How to Build Max-Performance Mitsubishi 4G63 Engines covers every system and component of the engine, including the turbocharger system and engine management. More than just a collection of tips and tricks, however, this book includes a complete history of the engine and its evolution, an identification guide, and advice for choosing engine components and other parts, including bolt-ons and transmission and drivetrain upgrades. Profiles of successful built-up engines show the reader examples of what works and helpful guidance for choosing the path of their own engine build.
Alternative Engines for Road Vehicles Cambridge University Press
Tribological Processes in Valvetrain Systems with Lightweight Valves: New Research and Modelling provides readers with the latest methodologies to reduce friction and wear in valvetrain systems—a severe problem for designers and manufacturers. The solution is achieved by identifying the tribological processes and phenomena in the friction nodes of lightweight valves made of titanium alloys and ceramics, both cam and camless driven. The book provides a set of structured information on the current tribological problems in modern internal combustion engines—from an introduction to the valvetrain operation to the processes that produce wear in the components of the valvetrain. A valuable resource for teachers and students of mechanical or automotive engineering, as well as automotive manufacturers, automotive designers, and tuning engineers. Shows the tribological problems occurring in the guide-light valve-seat insert Combines numerical and experimental solutions of wear and friction processes in valvetrain systems Discusses various types of cam and camless drives the valves used in valve trains of internal combustion engines—both SI and CI Examines the materials used, protective layers and geometric parameters of lightweight valves, as well as mating guides and seat inserts
Fast Forward SAE International
A Choice Outstanding Academic Title The Encyclopedia of Automotive Engineering provides for the first time a large, unified knowledge base laying the foundation for advanced study and in-depth research. Through extensive cross-referencing and search functionality it provides a gateway to detailed but scattered information on best industry practice, engendering a better understanding of interrelated concepts and techniques that cut across specialized areas of engineering. Beyond traditional automotive subjects the Encyclopedia addresses green technologies, the shift from mechanics to electronics, and the means to produce safer, more efficient vehicles within varying economic restraints worldwide. The work comprises nine main parts: (1) Engines: Fundamentals (2) Engines: Design (3) Hybrid and Electric Powertrains (4) Transmission and Driveline (5) Chassis Systems (6) Electrical and Electronic Systems (7) Body Design (8) Materials and Manufacturing (9) Telematics. Offers authoritative coverage of the wide-ranging specialist topics encompassed by automotive engineering An accessible point of reference for entry level engineers and students who require an understanding of the fundamentals of technologies outside of their own expertise or training Provides invaluable guidance to more detailed texts and research findings in the technical literature Developed in conjunction with FISITA, the umbrella organisation for the national automotive societies in 37 countries around the world and representing more than 185,000 automotive engineers 6 Volumes www.automotive-reference.com An essential resource for libraries and information centres in industry, research and training organizations, professional societies, government departments, and all relevant engineering departments in the academic sector.
Modern Engine Blueprinting Techniques CarTech Inc
This book provides an introduction to the design and mechanical development of reciprocating piston engines for vehicular applications. Beginning from the determination of required displacement and performance, coverage moves into engine configuration and architecture. Critical layout dimensions and design trade-offs are then presented for pistons, crankshafts, engine blocks, camshafts, valves, and manifolds. Coverage continues with material strength and casting process selection for the cylinder block and cylinder heads. Each major engine component and sub-system is then taken up in turn, from lubrication system, to cooling system, to intake and exhaust systems, to NVH. For this second edition latest findings and design practices are included, with the addition of over sixty new pictures and many new equations.
Sharp Magazine July 2008 Springer Science & Business Media
Cincinnati Magazine taps into the DNA of the city, exploring shopping, dining, living, and culture and giving readers a ringside seat on the issues shaping the region.
Modern Engine Technology Lulu.com
Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed!
Vehicular Engine Design Springer Science & Business Media
In this second edition of Electronic Engine Control Technologies, the latest advances and technologies of electronic engine control are explored in a collection of 99 technical papers, none of which were included in the book's first edition. Editor Ronald K. Jurgen offers an informative introduction, "Neural Networks on the Rise," clearly explaining the book's overall format and layout. The book then closely examines the many areas surrounding electronic engine control technologies, including: specific engine controls, diagnostics, engine modeling, innovative solid-state hardware and software systems, communication techniques for engine control, neural network applications, and the future of electronic engine controls.
Encyclopedia of Automotive Engineering John Wiley & Sons
Part dictionary, part encyclopedia, Modern Engine Technology from A to Z will serve as your comprehensive reference guide for many years to come. Keywords throughout the text are in alphabetical order and highlighted in blue to make them easier to find, followed, where relevant, by subentries extending to as many as four sublevels. Full-color illustrations provide additional visual explanation to the reader. This book features: approximately 4,500 keywords, with detailed cross-references more than 1,700 illustrations, some in full color in-depth contributions from nearly 100 experts from industry and science engine development, both theory and practice
Electronic Engine Control Technologies Computational Mechanics
Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed!
Passenger Cars 2000 SAE International

Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed!
Motor Business Japan Springer
Many books have been written about the design, construction, and maintenance of valvetrains, but until now, information has been scattered and difficult to find. This comprehensive book will serve as your single resource providing a systematic introduction to valvetrain systems and components. Focusing on the fundamental concepts, this book enables you to appreciate design and material considerations, while at the same time understanding the difficulties in designing valvetrains to satisfy functional requirements and manufacturing challenges.
TWENTY-FIRST CENTURY'S FUEL SUFFICIENCY ROADMAP Wide Eyed Editions
Carmakers release new models every year with advanced technology to attract consumer interest and to satisfy increasingly stringent government regulations. Some of these technologies are firsts or leading-edge, and they start trends that more companies will soon follow. Snapshots of the direction of the automotive industry, along with OEM and supplier perspectives, are presented in these articles that have been collected by the Editors of Automotive Engineering whose aim is to provide the reader with a complete overview of the key advances that took place over the course of one model year. • Provides a single source for information on the key engineering trends of one year. • Allows the reader to skip to chapters that cover specific car models that interest them, or read about all models from beginning to end. • Includes plenty of big, full-color images and the facts about the most recent technology and engineering innovations. Each car manufacturer has its own chapter exploring new models in-depth. The yearly trends and innovations that make the automotive industry fascinating to both the engineer and the customer are all captured in the imagery and easy-reading of this full-color book.
Official Gazette of the United States Patent and Trademark Office Computational Mechanics
Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed!
Engines CarTech Inc
Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed!
Tribological Processes in the Valve Train Systems with Lightweight Valves Editions OPHRYS
This book describes in extensive detail the new technologies that are currently in use or under development, which are designed to provide high-quality fuels and ensure their optimal use in the engines used to power automobiles, trucks, aircraft, and ships. All types of fuels are covered: gasolines, diesel fuels, liquefied petroleum gas, natural gas, biofuels, jet fuels, heavy fuels, and fuels for special uses. The evaluation criteria include vehicle performance and driveability, reduction in fossil fuel consumption, and environmental protection. The specific situations encountered in each region of the world (including the United States, Europe, Japan and the developing countries) are analyzed and compared, with a focus on energy, economics and politics. This book is a scientific work, yet easy to read; it is objective, yet actively involved. It is thus an excellent reference work for those seeking pertinent, reliable and comprehensive information on the the subject of fuels and engines. Volume 1Contents: 1. Physical properties and chemical characteristics of fuels. 2. Refining technologies. 3. Gasoline. 4. Diesel fuelVolume 2Contents: 5. Fuels, fuel consumption and environmental protection. 6. Alternatice fuels. 7. Special Fuels. 8. The Fuels and engines of tomorrow.
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Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed!
Automotive Engineering SAE International
Innovative text focusing on engine design and fluid dynamics, with numerous illustrations and a web-based software tool.
Torque Springer Science & Business Media
Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed!
Automotive Engine Alternatives MDPI
The role that combustion plays in the world ' s energy systems will continue to evolve with the changes in technological demands. For example, the challenges that we face today are more focused on the conservation of energy and addressing environmental concerns, which together necessitate cleaner and more efficient combustion processes using a range of fuel sources. This book includes contributions to highlight the recent progress in theory and experiments, development, and demonstration of technologies and systems involving combustion processes, for the production, storage, use, and conservation of energy.