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### KEY=ROTARY - ALEAH YARELI

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#### STREET ROTARY HP1549

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#### HOW TO BUILD MAXIMUM HORSEPOWER & RELIABILITY INTO MAZDA'S 12A, 13B & RENESIS ENGINES

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Penguin *The ultimate performance guide to the rotary engines built by Mazda from 1978 to the present. Includes: Engine history and identification ? Rotary engine fundamentals ? Component selection and modifications ? Housings and porting ? Rotors, seals, and internals ? Intake and fuel systems ? Exhaust Systems ? Engine management and ignition ? Oil and lubrication systems ? Forced induction ? Nitrous, water and alcohol injection*

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#### MAZDA ROTARY-ENGINED CARS

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#### FROM COSMO 110S TO RX-8

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Veloce Publishing Ltd *The complete history of Mazda's rotary engine-powered vehicles, from Cosmo 110S to RX-8. Charting the challenges, sporting triumphs, and critical reactions to a new wave of sports sedans, wagons, sports cars ... and trucks!*

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#### HEARINGS, REPORTS AND PRINTS OF THE SENATE COMMITTEE ON PUBLIC WORKS

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#### DECISION OF THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY REGARDING SUSPENSION OF THE 1975 AUTO EMISSION STANDARDS: MAY 14, 17, 18, AND 21, 1973

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#### DECISION OF THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY REGARDING SUSPENSION OF THE 1975 AUTO EMISSION STANDARDS, HEARINGS BEFORE THE SUBCOMMITTEE ON AIR AND WATER POLLUTION ..., 93-1

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#### RX-7 MAZDA'S ROTARY ENGINE SPORTS CAR

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#### UPDATED & ENLARGED EDITION

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Veloce Publishing Ltd *Enlarged new edition of the definitive international history of Mazda's extraordinary successful Wankel-engined coupes & roadsters right up to the end of production and the introduction of the RX-8.*

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#### MAZDA RX-8

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#### ALL MODELS 2003 TO 2012

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Veloce Publishing Ltd *Tempted by Mazda's unique RX-8, but unsure where to start? Having this book in your pocket is just like having a rotary expert by your side. Spot a bad car quickly, and learn how to assess a promising car like a professional. Buy the right car at the right price!*

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#### RX-7

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#### MAZDA'S ROTARY ENGINE SPORTSCAR

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Motorbooks International *The definitive history of the successful and amazingly long-lived RX-7 from launch in 1978 to the millennium and beyond. Mazda's boldness in using Felix Wankel's engine design--and solving the associated problems--imbued the RX-7 with huge driver appeal, so much so that close to half a million cars had been sold by 1986 ... Colour throughout.*

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*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.*

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#### THE WANKEL ROTARY ENGINE

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#### A HISTORY

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McFarland *Conceived in the 1930s, simplified and successfully tested in the 1950s, the darling of the automotive industry in the early 1970s, then all but abandoned before resurging for a brilliant run as a high-performance powerplant for Mazda, the Wankel rotary engine has long been an object of fascination and more than a little mystery. A remarkably simple design (yet understood by few), it boasts compact size, light weight and nearly vibration-free operation. In the 1960s, German engineer Felix Wankel's invention was beginning to look like a revolution in the making. Though still in need of refinement, it held much promise as a smooth and powerful engine that could fit in smaller spaces than piston engines of similar output. Auto makers lined up for licensing rights to build their own Wankels, and for a time analysts predicted that much of the industry would convert to rotary power. This complete and well-illustrated account traces the full history of the engine and its use in various cars, motorcycles, snowmobiles and other applications. It clearly explains the working of the engine and the technical challenges it presented—the difficulty of designing effective and durable seals, early emissions troubles, high fuel consumption, and others. The work done by several companies to overcome these problems is described in detail, as are the economic and political troubles that nearly killed the rotary in the 1970s, and the prospects for future rotary-powered vehicles.*

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*Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.*

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## **TOWARDS SUSTAINABLE ROAD TRANSPORT**

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*Academic Press* Increasing pressure on global reserves of petroleum at a time of growing demand for personal transport in developing countries, together with concerns over atmospheric pollution and carbon dioxide emissions, are leading to a requirement for more sustainable forms of road transport. Major improvements in the efficiency of all types of road vehicles are called for, along with the use of fuels derived from alternative sources, or entirely new fuels. *Towards Sustainable Road Transport* first describes the evolution of vehicle designs and propulsion technologies over the past two centuries, before looking forward to possible new forms of energy to substitute for petroleum. The book also discusses the political and socio-economic drivers for change, investigates barriers to their broad implementation, and outlines the state-of-the-art of candidate power sources, advanced vehicle design, and associated infrastructure. The comprehensive technical information supplied by an expert author team ensures that *Towards Sustainable Road Transport* will provide readers with a clear understanding of the ongoing progress in this field and the challenges still to be faced. Drivers of technological change in road transport and the infrastructure requirements Discussion of alternative fuels for internal combustion engines and fuel conversion technologies Detailed exploration of current and emerging options for vehicle propulsion, with emphasis on hybrid/ battery electric traction, hydrogen, and fuel cells Comparative analysis of vehicle design requirements, primary power source efficiency, and energy storage systems

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## **FUTURE FLIGHT: THE NEXT GENERATION OF AIRCRAFT TECHNOLOGY**

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*McGraw Hill Professional* Describes possible military and commercial aircraft of the future, and looks at changes in propulsion systems, aerodynamics, instruments, materials, and manufacturing

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## **ANNUAL REPORT TO CONGRESS ON THE AUTOMOTIVE TECHNOLOGY DEVELOPMENT PROGRAM. ELEVENTH**

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### **MAZDA RX-7 PERFORMANCE HANDBOOK**

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## **ANNUAL REPORT TO CONGRESS ON THE AUTOMOTIVE TECHNOLOGY DEVELOPMENT PROGRAM. NINTH**

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### **GROWING UP WITH SCIENCE**

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*Marshall Cavendish* Volume sixteenth of a seventeen-volume, alphabetically-arranged encyclopedia contains approximately five hundred articles introducing key aspects of science and technology.

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## **THE CANADIAN CAR BUYER'S SURVIVAL GUIDE**

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### **HOW TO BUY OR LEASE THE RIGHT VEHICLE AT THE RIGHT PRICE**

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*Dundurn*

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## **THE WANKEL ROTARY ENGINE**

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### **INTRODUCTION AND GUIDE**

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Discusses the history and performance of the Wankel rotary engine and offers pointers on proper driving methods and maintenance

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## **AMERICAN CARS, 1973\_1980**

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### **EVERY MODEL, YEAR BY YEAR**

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*McFarland* The 1973 oil crisis forced the American automotive industry into a period of dramatic change, marked by stiff foreign competition, tougher product regulations and suddenly altered consumer demand. With gas prices soaring and the economy in a veritable tailspin, muscle cars and the massive "need-for-speed" engines of the late '60s were out, and fuel efficient compacts were in. By 1980, American manufacturers were churning out some of the most feature laden, yet smallest and most fuel efficient cars they had ever built. This exhaustive reference work details every model from each of the major American manufacturers from model years 1973 through 1980, including various "captive imports" (e.g. Dodge's Colt, built by Mitsubishi.) Within each model year, it reports on each manufacturer's significant news and details every model offered: its specifications, powertrain offerings, prices, standard features, major options, and production figures, among other facts. The work is heavily illustrated with approximately 1,300 photographs.

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## **NEW SCIENTIST**

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*New Scientist* magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, *New Scientist* reports, explores and interprets the results of human endeavour set in the context of society and culture.

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## **PRODUCT RELIABILITY**

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### **SPECIFICATION AND PERFORMANCE**

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*Springer Science & Business Media* As an overview of reliability performance and specification in new product development, *Product Reliability* is suitable for managers responsible for new product development. The methodology for making decisions relating to reliability performance and specification will be of use to engineers involved in product design and development. This book can be used as a text for graduate courses on design, manufacturing, new product development and operations management and in various engineering disciplines.

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## **PAPER**

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### **FLYING MAGAZINE**

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### **ASME TECHNICAL PAPERS**

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## **POPULAR MECHANICS**

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*Popular Mechanics* inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- *PM* is the ultimate guide to our high-tech lifestyle.

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**FLYING MAGAZINE**

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**DUCTED FAN DESIGN, VOLUME 1**

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**VOLUME 1 - PROPULSION PHYSICS AND DESIGN OF FANS AND LONG-CHORD DUCTS**

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Marc de Piolenc Presents a simplified method of designing ducted fans for light aircraft propulsion. Includes a survey of ducted-fan-powered aircraft, ranging from amateur-built airplanes to military models and prototypes. Detailed discussion of engines and list of suitable powerplants drawn from automobiles, ATVs and personal watercraft. Extensive technical bibliography and list of sources.

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**FLYING MAGAZINE**

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**THE CUTTING EDGE**

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**THE STORY OF KIWI MOTORSPORT LEGEND ROD MILLEN**

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Penguin Random House New Zealand Limited One of New Zealand's greatest rally drivers and a hill-climbing superstar tells his inspiring story for the very first time. Rod Millen was a hero of New Zealand rallying in the 1970s. Having won several championships he quickly established himself as New Zealand's number one driver. But thereafter Millen went on to do what very few Kiwis have achieved, finding podium success in American motorsport. He won the North American Race and Rally Championship in 1979, 1980 and 1981, then in 1989 Millen achieved perhaps his greatest feat, winning the Pikes Peak International Hill Climb, America's second oldest motor-racing event. Writing his name into history, he went on to win the race more times than any driver. The hill-climb is often referred to as 'Millen's Mountain'. Rod Millen is also a highly successful businessman. As a continuation of his off-road driving interests, he founded Millenworks in California in 1980, specializing in cutting-edge light tactical vehicles, armored and off-road vehicles and subsystems for the US military and theme parks. Millen has recently returned to New Zealand, building a 140-acre, ocean-front estate at Hahei with a racetrack as a driveway, modeled on his favourite hill-climb corners around the world. He's also established Leadfoot Festival, a unique weekend held every two years at the estate, bringing together a mix of classic cars, vintage motorcycles and motorsport legends, inspired by the famous British Goodwood Festival of Speed. Aside from rallying, Rod is well known for other forms racing such as super touring, drifting and extreme off-road races like the Baja 1000 (often considered the most dangerous race in the world) and Transsyberia rally (which he won in 2007). Rod also won the Race to the Sky hill-climb in New Zealand in 2002 and posted the fastest time at the 2002 Goodwood Festival of Speed in England - and he still has the record up his own front driveway. The Cutting Edge is Rod's story, in his own words, of a life lived pushing the boundaries, of record-breaking off-road driving, working at the forefront of motorsport technology, and of creating the ultimate petrol-head heaven, right in his own backyard.

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**DIESEL PROGRESS NORTH AMERICAN**

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**SCIENTIFIC BULLETIN**

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**TECHNOLOGY ASSESSMENT OF CHANGES IN THE FUTURE USE AND CHARACTERISTICS OF THE AUTOMOBILE TRANSPORTATION SYSTEM: TECHNICAL REPORT**

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**ONR FAR EAST SCIENTIFIC BULLETIN**

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**TECHNOLOGY ASSESSMENT OF CHANGES IN THE FUTURE USE AND CHARACTERISTICS OF THE AUTOMOBILE TRANSPORTATION SYSTEM**

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