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Gianfranco Pistoia



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Hybrid Electric Vehicles Chris Mi, M. Abul Masrur, 2017-11-29 The latest developments in the field of hybrid electric vehicles *Hybrid Electric Vehicles* provides an introduction to hybrid vehicles which include purely electric hybrid electric hybrid hydraulic fuel cell vehicles plug in hybrid electric and off road hybrid vehicular systems It focuses on the power and propulsion systems for these vehicles including issues related to power and energy management Other topics covered include hybrid vs pure electric HEV system architecture including plug in charging control and hydraulic off road and other industrial utility vehicles safety and EMC storage technologies vehicular power and energy management diagnostics and prognostics and electromechanical vibration issues *Hybrid Electric Vehicles Second Edition* is a comprehensively updated new edition with four new chapters covering recent advances in hybrid vehicle technology New areas covered include battery modelling charger design and wireless charging Substantial details have also been included on the architecture of hybrid excavators in the chapter related to special hybrid vehicles Also included is a chapter providing an overview of hybrid vehicle technology which offers a perspective on the current debate on sustainability and the environmental impact of hybrid and electric vehicle technology Completely updated with new chapters Covers recent developments breakthroughs and technologies including new drive topologies Explains HEV fundamentals and applications Offers a holistic perspective on vehicle electrification *Hybrid Electric Vehicles Principles and Applications with Practical Perspectives Second Edition* is a great resource for researchers and practitioners in the automotive industry as well as for graduate students in automotive engineering

The 2005 DARPA Grand Challenge Martin Buehler, Karl Iagnemma, Sanjiv Singh, 2007-09-06 The DARPA Grand Challenge was a landmark in the field of robotics a race by autonomous vehicles through 132 miles of rough Nevada terrain It showcased exciting and unprecedented capabilities in robotic perception navigation and control The event took place in October 2005 and drew teams of competitors from academia and industry as well as many garage hobbyists This book presents fifteen technical papers that describe each team's driverless vehicle race strategy and insights As a whole they present the state of the art in autonomous vehicle technology and offer a glimpse of future technology for tomorrow's driverless cars

Automotive News, 2007 *Battery Operated Devices and Systems* Gianfranco Pistoia, 2008-09-24 *Battery Operated Devices and Systems* provides a comprehensive review of the essentials of batteries and battery applications as well as state of the art technological developments The book covers the most recent trends especially for the ubiquitous lithium ion batteries It lays particular emphasis on the power consumption of battery operated devices and systems and the implications for battery life and runtime Battery management is also dealt with in detail particularly as far as the charging methods are concerned along with the criteria of battery choice This book describes a variety of portable and industrial applications and the basic characteristics of all primary and secondary batteries used in these applications Portable applications include mobile phones notebook computers cameras camcorders personal digital assistants medical

instruments power tools and portable GPS Industrial applications range from aerospace and telecommunications to emergency systems load levelling energy storage toll collection different meters data loggers oil drilling oceanography and meteorology The book also discusses wireless connectivity i e Wi Fi Bluetooth and Zigbee and concludes with some market considerations Links to further reading are provided through the 275 references This book will be a valuable information source for researchers interested in devices and systems drawing power from batteries It will also appeal to graduates working in research institutions universities and industries dealing with power sources and energy conversion civil electrical and transport engineers and chemists A comprehensive review of battery applications Includes 209 figures and 62 tables Describes state of the art technological developments

Automotive Technician Training: Theory Tom Denton, 2014-04-16 A blended learning approach to automotive engineering at levels one to three Produced alongside the ATT online learning resources this textbook covers all the theory and technology sections that students need to learn in order to pass levels 1 2 and 3 automotive courses It is recommended by the Institute of the Motor Industry and is also ideal for exams run by other awarding bodies Unlike the current textbooks on the market though this title takes a blended learning approach using interactive features that make learning more enjoyable as well as more effective When linked with the ATT online resources it provides a comprehensive package that includes activities video footage assessments and further reading Information and activities are set out in sequence so as to meet teacher and learner needs as well as qualification requirements Tom Denton is the leading UK automotive author with a teaching career spanning lecturer to head of automotive engineering in a large college His nine automotive textbooks published since 1995 are bestsellers and led to his authoring of the Automotive Technician Training multimedia system that is in common use in the UK USA and several other countries

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