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2023-04-24

MATHEWS GARZA

A Handbook Springer

Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles evaluates various technologies and methods that could improve the fuel economy of medium- and heavy-duty vehicles, such as tractor-trailers, transit buses, and work trucks. The book also recommends approaches that federal agencies could use to regulate these vehicles' fuel consumption. Currently there are no fuel consumption standards for such vehicles, which account for about 26 percent of the transportation fuel used in the U.S. The miles-per-gallon measure used to regulate the fuel economy of passenger cars. is not appropriate for medium- and heavy-duty vehicles, which are designed above all to carry loads efficiently. Instead, any regulation of medium- and heavy-duty vehicles should use a metric that reflects the efficiency with which a vehicle moves goods or passengers, such as gallons per ton-mile, a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile. This is called load-specific fuel consumption (LSFC). The book estimates the improvements that various technologies could achieve over the next decade in seven vehicle types. For example, using advanced diesel engines in tractor-trailers could lower their fuel consumption by up to 20 percent by 2020, and improved aerodynamics could yield an 11 percent reduction. Hybrid powertrains could lower the fuel consumption of vehicles that stop frequently, such as garbage trucks and transit buses, by as much 35 percent in the same time frame.

[ERDA Energy Research Abstracts](#) American Society of Agricultural & Biological Engineers

Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Agricultural Robots Apollo Books

I love fishing, any kind of fishing. Blank Lined Journal Notebook, 100 Pages, Soft Matte Cover, 6 x 9 In Details: Dimensions: 6 x 9 IN 1100 pages of Blank-Lined White Pages High-Quality Paper Soft Matte Cover

Patents Society of Photo Optical

This Proceedings contains the papers presented at the second IFAC-CIGR Workshop on Intelligent Control For Agricultural Applications, held in Bali, Indonesia, 22-24 August 2001. The workshop provided a forum for the presentation and discussion of new results and approaches in the area of intelligent control application in agriculture and industry. The topics covered in the Proceedings range from precision farming to applications of control, neural networks and fuzzy algorithms in greenhouse technology, agricultural production and industrial processes. Also covered are quality evaluation using non-destructive methods

such as ultrasonic, visible light and near infrared reflectance (NIR), as well as agricultural commodities, including fishery products as well as plants. Altogether over 50 papers are presented, including keynote papers by leading world experts. [Predicasts Technology Update](#) National Academies Press From artificial neural net / game theory / semantic applications, to modeling tools, smart manufacturing systems, and data science research - this book offers a broad overview of modern intelligent methods and applications of machine learning, evolutionary computation, Industry 4.0 technologies, and autonomous agents leading to the Internet of Things and potentially a new technological revolution. Though chiefly intended for IT professionals, it will also help a broad range of users of future emerging technologies adapt to the new smart / intelligent wave. In separate chapters, the book highlights fourteen successful examples of recent advances in the rapidly evolving area of intelligent systems. Covering major European projects paving the way to a serious smart / intelligent collaboration, the chapters explore e.g. cyber-security issues, 3D digitization, aerial robots, and SMEs that have introduced cyber-physical production systems. Taken together, they offer unique insights into contemporary artificial intelligence and its potential for innovation.

[Convergence 84](#) Official Gazette of the United States Patent and Trademark Office Patents Intelligent Systems: Theory, Research and Innovation in Applications

This two volume set LNAI 9834 and 9835 constitutes the refereed proceedings of the 9th International Conference on Intelligent Robotics and Applications, ICIRA 2016, held in Tokyo, Japan, in August 2016. The 114 papers presented were carefully reviewed and selected from 148 submissions. The papers are organized in topical sections such as Robot Control; Robot Mechanism, Robot Vision and Sensing; Planning, Localization, and Mapping; Interactive Intelligence; Cognitive Robotics; Bio-Inspired Robotics; Smart Material Based Systems; Mechatronics Systems for Nondestructive Testing; Social Robotics; Human Support Robotics; Assistive Robotics; Intelligent Space; Sensing and Monitoring in Environment and Agricultural Sciences; Human Data Analysis; Robot Hand.

Mechanisms and Practice Pergamon

Synchronous Generators, the first of two volumes in the Electric Generators Handbook, offers a thorough introduction to electrical energy and electricity generation, including the basic principles of electric generators. The book devotes a chapter to the most representative prime mover models for transients used in active control of various generators. Then, individual chapters explore large- and medium-power synchronous generator topologies, steady state, modeling, transients, control, design, and testing. Numerous case studies, worked-out examples, sample results, and illustrations highlight the concepts. Fully revised and updated to reflect the last decade's worth of progress in the field, this Second Edition adds new sections that: Discuss high-power wind generators with fewer or no permanent magnets (PMs) Cover PM-assisted DC-excited salient pole synchronous generators Present

multiphase synchronous machine inductances via the winding function method Consider the control of autonomous synchronous generators Examine additional optimization design issues Illustrate the optimal design of a large wind generator by the Hooke-Jeeves method Detail the magnetic equivalent circuit population-based optimal design of synchronous generators Address online identification of synchronous generator parameters Explain the small-signal injection online technique Explore line switching (on or off) parameter identification for isolated grids Describe synthetic back-to-back load testing with inverter supply The promise of renewable, sustainable energy rests on our ability to design innovative power systems that are able to harness energy from a variety of sources. Synchronous Generators, Second Edition supplies state-of-the-art tools necessary to design, validate, and deploy the right power generation technologies to fulfill tomorrow's complex energy needs.

Intelligent Control for Agricultural Applications 2001 Springer Nature

This book is intended to serve as a comprehensive reference on the design and development of diesel engines. It talks about combustion and gas exchange processes with important references to emissions and fuel consumption and descriptions of the design of various parts of an engine, its coolants and lubricants, and emission control and optimization techniques.

Some of the topics covered are turbocharging and supercharging, noise and vibrational control, emission and combustion control, and the future of heavy duty diesel engines. This volume will be of interest to researchers and professionals working in this area.

Index of Patents Issued from the United States Patent and Trademark Office CRC Press

Official Gazette of the United States Patent and Trademark Office Patents Intelligent Systems: Theory, Research and Innovation in Applications Springer Nature

Intelligent Autonomous Vehicles Springer Nature

This proceedings volume contains the papers from the 4th IFAC Symposium on Intelligent Autonomous Vehicles that was held in Sapporo, Japan, in September 2001. This collection covers various aspects of intelligent autonomous vehicles such as design, planning, computational scheme, architecture, vision, recognition, modelling and control. It also looks at system technologies such as emergence systems, co-operative robots, applications to agricultural vehicles, field robots, factory and office vehicles, soccer robots, nursing vehicles, marine vehicles, aero- and spacecrafts in the air.

Farming Ahead with the Kondinin Group Pergamon

The history of Japan's agriculture is characterized by efforts to increase production and productivity. At the beginning of the 21st century, both public and private sector research has focused on developing ever-more sophisticated tools to address a wide-range of challenges facing the agricultural industry. An amazing array of automation technologies and robots have been developed in the process, to do everything from tilling fields to picking strawberries, from planting rice seedlings to autonomously weeding the paddies. This richly-illustrated volume surveys the results of these efforts, concisely and plainly presenting specific examples of the latest robotic mechanisms and practices for agricultural applications.

Journal of the Air & Waste Management Association

The Motor Ship

AMA, Agricultural Mechanization in Asia, Africa and Latin America

International Congress on Transportation Electronics Proceedings, October 22-24, 1984, Dearborn, Michigan

Intelligent Systems: Theory, Research and Innovation in Applications

Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles

ERDA Energy Research Abstracts

Japanese Technical Abstracts

Patents