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Official Gazette of the United States Patent Office United States. Patent Office 1970

VIII International Scientific Siberian Transport Forum Zdenka Popovic 2020-01-04 This book presents the findings of scientific studies on the successful operation of complex transport infrastructures in regions with extreme climatic and geographical conditions. It features the proceedings of the VIII International Scientific Siberian Transport Forum, TransSiberia 2019, which was held in Novosibirsk, Russia, on May 22–27, 2019. The book discusses improving energy efficiency in the transportation sector and the use of artificial intelligence in transport, highlighting a range of topics, such as freight and logistics, freeway traffic modelling and control, intelligent transport systems and smart mobility, transport data and transport models, highway and railway construction and trucking on the Siberian ice roads. Consisting of 214 high-quality papers on a wide range of issues, these proceedings appeal to scientists, engineers, managers in the transport sector, and anyone involved in the construction and operation of transport infrastructure facilities.

Rail Transport—Systems Approach Aleksander Śladkowski 2017-03-08 This book shows how the systems approach is employed by scientists in various countries to solve specific problems concerning railway transport. In particular, the book describes the experiences of scientists from Romania, Germany, the Czech Republic, the UK, Russia, Ukraine, Lithuania and Poland. For many of these countries there is a problem with the historical differences between the railways. In particular, there are railways with different rail gauges, with different signaling and communication systems, with different energy supplies and, finally, with different political systems, which are reflected in the different approaches to the management of railway economies. The book's content is divided into two main parts, the first of which provides a systematic analysis of individual means of providing and maintaining rail transport. In turn, the second part addresses infrastructure and management development, with particular attention to security issues. Though primarily written for professionals involved in various problems concerning railway transport, the book will also benefit manufacturers, railway technical staff, managers, and students with transport specialties, as well as a wide range of readers interested in learning more about the current state of transport in different countries.

Electric and Hybrid Vehicles Amir Khajepour 2014-03-05 An advanced level introductory book covering fundamental aspects, design and dynamics of electric and hybrid electric vehicles There is significant demand for an understanding of the fundamentals, technologies, and design of electric and hybrid electric vehicles and their components from researchers, engineers, and graduate students. Although there is a good body of work in the literature, there is still a great need for electric and hybrid vehicle teaching materials. *Electric and Hybrid Vehicles: Technologies, Modeling and Control – A Mechatronic Approach* is based on the authors' current research in vehicle systems and will include chapters on vehicle propulsion systems, the fundamentals of vehicle dynamics, EV and HEV technologies, chassis systems, steering control systems, and state, parameter and force estimations. The book is highly illustrated, and examples will be given throughout the book based on real applications and challenges in the automotive industry. Designed to help a new generation of engineers needing to master the principles of and further advances in hybrid vehicle technology Includes examples of real applications and challenges in the automotive industry with problems and solutions Takes a mechatronics approach to the study of electric and hybrid electric vehicles, appealing to mechanical and electrical engineering interests Responds to the increase in demand of universities offering courses in newer electric vehicle technologies

Civic Affairs 1977

Electric and Hybrid Vehicles Iqbal Husain 2021-02-22 A thoroughly revised third edition of this widely praised, bestselling textbook presents a comprehensive systems-level perspective of electric and hybrid vehicles with emphasis on technical aspects, mathematical relationships and basic design guidelines. The emerging technologies of electric vehicles require the dedication of current and future engineers, so the target audience for the book is the young professionals and students in engineering eager to learn about the area. The book is concise and clear, its mathematics are kept to a necessary minimum and it contains a well-balanced set of contents of the complex technology. Engineers of multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles. Additions in the third edition include simulation-based design analysis of electric and hybrid vehicles and their powertrain components, particularly that of traction inverters, electric machines and motor drives. The technology trends to incorporate wide bandgap power electronics and reduced rare-earth permanent magnet electric machines in the powertrain components have been highlighted. Charging stations are a critical component for the electric vehicle infrastructure, and hence, a chapter on vehicle interactions with the power grid has been added. Autonomous driving is another emerging technology, and a chapter is included describing the autonomous driving system architecture and the hardware and software needs for such systems. The platform has been set in this book for system-level simulations to develop models using various softwares used in academia and industry, such as MATLAB®/Simulink, PLECS, PSIM, Motor-CAD and Altair Flux. Examples and simulation results are provided in this edition using these software tools. The third edition is a timely revision and contribution to the field of electric vehicles that has reached recently notable markets in a more and more environmentally sensitive world.

Industrial, Mechanical and Manufacturing Science Dawei Zheng 2015-02-25 The 2014 International Conference

on Industrial, Mechanical and Manufacturing Science (ICIMMS 2014) was held June 12-13 in Tianjin, China. The objective of ICIMMS 2014 was to provide a platform for researchers, engineers, academics as well as industry professionals from all over the world to present their research results and development activities

Street and Electric Railways 1910

Design and Simulation of Heavy Haul Locomotives and Trains Maksym Spiriyagin 2016-10-03 With the increasing demands for safer freight trains operating with higher speed and higher loads, it is necessary to implement methods for controlling longer, heavier trains. This requires a full understanding of the factors that affect their dynamic performance. Simulation techniques allow proposed innovations to be optimised before introducing them into the operational railway environment. Coverage is given to the various types of locomotives used with heavy haul freight trains, along with the various possible configurations of those trains. This book serves as an introductory text for college students, and as a reference for engineers practicing in heavy haul rail network design,

Theoretical foundations of engineering. Tasks and problems Boiko T., Boiko P., Muzyka N., Ключка С., Сорока М., Чемерис І., Білик Л., Сич В., Vereziuk O., Lemeshev M., Cherepakha D., Chovniuk Y., Moskvitina A., Shishina M., Kravchuk V., Usenko V., Vorontsov O., Usenko I., Kodak O., Boyko V., Vasylenko O., Moskalenko K., Stashenko M., Tanirverdiev A., El Echcheikh A.D., Бабенцова О., Курілович К., Сліпченко В., Шаламова К., Коваленко А.С., Пузачова А.С., Шаламова К., Польщікова Н.В., Марценюк О.І., Жарська М., Вербовецька В., Goolak S., Petrenko A., Lukashova N., Shavkun V., Fediushko A., Fedyushko Y., Azarkhov A., Sili I., Fediushko M., Gorobets V., Trokhaniak V., Antypov I., Spodyniuk N., Kliuieva O., Rusanov S., Luniaka K., Kliuiev O., Lys S., Yurasova O., Galyanchuk I., Идрисова А.Е., Рахымбеков А.Ж., Horishnii P., Topchii O., Shevchenko I., Kotliar Y., Petryna A., Taranchuk A., Pidchenko S., Рижков Е., Синиціна Ю., Станіна О., Бернацький А., Соколовський М., Сіора О., Лукашенко В., Шамсутдінова Н., Пимонов И., Шевченко В., Олейникова А., Погорельий И., Щукін О., Орел О., Sigarev E., Dovzhenko O., Lobanov Y., Chernyatevich I., Chubina O., Saprionova S., Vdovychenko V., Ivanov I., Кара І., Карий О.
2021-12-20 Collective monograph

Engineering Index 1925

Advances in Computer Science for Engineering and Manufacturing Zhengbing Hu 2022 The book's general scope covers the latest advances in the development of artificial intelligence systems and their applications in engineering and manufacturing. The book comprises refereed papers presented at the International Symposium on Engineering and Manufacturing (ISEM2021), held in Kyiv, Ukraine, on December 24-26, 2021. Given the rapid development of artificial intelligence systems, the book emphasizes the need for the intensification of training of a growing number of relevant specialists, in particular in engineering and manufacturing, to increase the effectiveness of the creation and diagnosis of appropriate technical solutions. In digital artificial intelligence systems, scientists endeavor to reproduce the innate intellectual abilities of humans and other organisms. In-depth studies of biological and self-organizing systems can provide new approaches to

create more and more effective artificial intelligence methods. The topics of the included papers concern thematic materials in the following spheres: mathematics and computer algorithms; analysis of some technical solutions; technological. The book is a compilation of state-of-the-art papers in the field, covering a comprehensive range of subjects that are relevant to business managers and engineering professionals alike. The breadth and depth of these proceedings make them an excellent resource for asset management practitioners, researchers, and academics, as well as undergraduate and postgraduate students interested in artificial intelligence systems and their growing applications. Specialists, students, and other groups of people who want to know how artificial intelligence systems can be used in the future will be the target audience for this book.

Railway Signaling and Communications 1915

The Engineering Index John Butler Johnson 1906

Energy Efficiency in Electric Motors, Drives, Power Converters and Related Systems Mario Marchesoni

2020-06-25 Today, there is a great deal of attention focused on sustainable growth worldwide. The increase in efficiency in the use of energy may even, in this historical moment, bring greater benefit than the use of renewable energies. Electricity appears to be the most sustainable of energies and the most promising hope for a planet capable of growing without compromising its own health and that of its inhabitants. Power electronics and electrical drives are the key technologies that will allow energy savings through the reduction of energy losses in many applications. This Special Issue has collected several scientific contributions related to energy efficiency in electrical equipment. Some articles are dedicated to the use and optimization of permanent magnet motors, which allow obtaining the highest level of efficiency. Most of the contributions describe the energy improvements that can be achieved with power electronics and the use of suitable control techniques. Last but not least, some articles describe interesting solutions for hybrid vehicles, which were created mainly to save energy in the smartest way possible.

Electric Railways Michael C. Duffy 2003-02-11 *Electric Railways 1880-1990* explores the history of the integration of both electric and diesel-electric railway systems and identifies the crucial role that diesel-electric traction played in the development of wireless electrification. The evolution of electrical technology and the modern railway produced innovations in engineering that were integral to the development of traction, power and signalling systems. This book presents a thorough survey of electric railway development from the earliest days of the London Underground to modern electrified main line trains. The distinction between 'enforced electrification' and 'economic electrification' is also discussed and the pioneering role of J.J. Heilmann assessed.

Electrical Technology N. P Subramaniam 2017-08-04 *ELECTRICAL TECHNOLOGY* is systematically developed to meet the syllabus of undergraduate course in Electrical Engineering of various universities. The complicated concepts are explained in a lucid manner with the help of necessary diagrams and waveforms. Comprehensive coverage has been made to explain the concepts of application-level topics like Electric

Traction and Power Electronics. Review questions have been added at the end of each chapter for better understanding of the subject apart from numerous numerical and design problems.

Networked Control Systems for Connected and Automated Vehicles Alexander Guda 2022-11-15 Control of large-scale distributed energy systems over communication networks is an important topic with many application domains. The book presents novel concepts of distributed control for networked and cyber-physical systems (CPS), such as smart industrial production lines, smart energy grids, and autonomous vehicular systems. It focuses on new solutions in managing data and connectivity to support connected and automated vehicles (CAV). The book compiles original research papers presented at the conference “Networked Control Systems for Connected and Automated Vehicles” (Russia). The latest connected and automated vehicle technologies for next generation autonomous vehicles are presented. The book sets new goals for the standardization of the scientific results obtained and the advancement to the level of full autonomy and full self-driving (FSD). The book presents the latest research in artificial intelligence, assessing virtual environments, deep learning systems, and sensor fusion for automated vehicles. Particular attention is paid to new safety standards, safety and security systems, and control of epidemic spreading over networks. The issues of building modern transport infrastructure facilities are also discussed in the articles presented in this book. The book is of considerable interest to scientists, researchers, and graduate students in the field of transport systems, as well as for managers and employees of companies using or producing equipment for these systems.

Computing And Optimization For Dc Power Systems Of Electric Transport Dmytro Bosyi 2020-02-18 In the modern world, further development of society is impossible without environmentally friendly modes of transport and their effective interaction within the framework of Smart Energy and ECO-driving concepts. Written at a time of rapid development of information technologies in various fields, this book serves as a kind of bridge for the introduction of artificial intelligence into the electric transport power supply systems. The calculation models and methods proposed make it possible to choose the most efficient modern equipment for electric power supply of electric vehicles, which, as a result, saves investment costs and reduces time to make decisions for designing complex objects. Insight is also given into building and adjusting Smart Energy class equipment to achieve optimal and economical modes.

Sensorless AC Electric Motor Control Alain Glumineau 2015-03-16 This monograph shows the reader how to avoid the burdens of sensor cost, reduced internal physical space, and system complexity in the control of AC motors. Many applications fields—electric vehicles, wind- and wave-energy converters and robotics, among them—will benefit. Sensorless AC Electric Motor Control describes the elimination of physical sensors and their replacement with observers, i.e., software sensors. Robustness is introduced to overcome problems associated with the unavoidable imperfection of knowledge of machine parameters—resistance, inertia, and so on—encountered in real systems. The details of a large number of speed- and/or position-sensorless ideas for different types of permanent-magnet synchronous motors and induction motors are presented along with several novel observer designs for electrical machines. Control strategies are developed using high-order, sliding-mode and quasi-continuous-sliding-mode techniques and two types of observer–controller schemes based on backstepping and sliding-mode techniques are described. Experimental results validate the

performance of these observer and controller configurations with test trajectories of significance in difficult sensorless-AC-machine problems. Control engineers working with AC motors in a variety of industrial environments will find the space-and-cost-saving ideas detailed in *Sensorless AC Electric Motor Control* of much interest. Academic researchers and graduate students from electrical, mechanical and control-engineering backgrounds will be able to see how advanced theoretical control can be applied in meaningful real systems.

Energy Research Abstracts 1994-10

Street and Electric Railways, 1907 United States. Census Office 1910

Power Electronics and Electric Drives for Traction Applications Gonzalo Abad 2016-11-14 *Power Electronics and Electric Drives for Traction Applications* offers a practical approach to understanding power electronics applications in transportation systems ranging from railways to electric vehicles and ships. It is an application-oriented book for the design and development of traction systems accompanied by a description of the core technology. The first four introductory chapters describe the common knowledge and background required to understand the preceding chapters. After that, each application-specific chapter: highlights the significant manufacturers involved; provides a historical account of the technological evolution experienced; distinguishes the physics and mechanics; and where possible, analyses a real life example and provides the necessary models and simulation tools, block diagrams and simulation based validations. Key features: Surveys power electronics state-of-the-art in all aspects of traction applications. Presents vital design and development knowledge that is extremely important for the professional community in an original, simple, clear and complete manner. Offers design guidelines for power electronics traction systems in high-speed rail, ships, electric/hybrid vehicles, elevators and more applications. Application-specific chapters co-authored by traction industry expert. Learning supplemented by tutorial sections, case studies and MATLAB/Simulink-based simulations with data from practical systems. A valuable reference for application engineers in traction industry responsible for design and development of products as well as traction industry researchers, developers and graduate students on power electronics and motor drives needing a reference to the application examples.

TRANSBALTICA XII: Transportation Science and Technology Olegas Prentkovskis 2022 This book reports on innovative research and developments in the broad field of transportation. It covers solutions relating to intelligent vehicles and infrastructure, energy and combustion management, vehicle dynamics and control, as well as research on human factors, logistics and security. Contributions are based on peer-reviewed papers presented at the 12th international scientific conference "Transbaltica: Transportation Science and Technology", held virtually from Vilnius Gediminas Technical University, Lithuania, on September 16-17, 2021. All in all, this book offers extensive information on modern transport systems, with a good balance of theory and practice.

The Signal Engineer 1915

AC Electric Motors Control Fouad Giri 2013-03-25 The complexity of AC motor control lies in the multivariable and nonlinear nature of AC machine dynamics. Recent advancements in control theory now make it possible to deal with long-standing problems in AC motors control. This text expertly draws on these developments to apply a wide range of model-based control design methods to a variety of AC motors. Contributions from over thirty top researchers explain how modern control design methods can be used to achieve tight speed regulation, optimal energetic efficiency, and operation reliability and safety, by considering online state variable estimation in the absence of mechanical sensors, power factor correction, machine flux optimization, fault detection and isolation, and fault tolerant control. Describing the complete control approach, both controller and observer designs are demonstrated using advanced nonlinear methods, stability and performance are analysed using powerful techniques, including implementation considerations using digital computing means. Other key features: • Covers the main types of AC motors including triphase, multiphase, and doubly fed induction motors, wound rotor, permanent magnet, and interior PM synchronous motors • Illustrates the usefulness of the advanced control methods via industrial applications including electric vehicles, high speed trains, steel mills, and more • Includes special focus on sensorless nonlinear observers, adaptive and robust nonlinear controllers, output-feedback controllers, fault detection and isolation algorithms, and fault tolerant controllers This comprehensive volume provides researchers and designers and R&D engineers with a single-source reference on AC motor system drives in the automotive and transportation industry. It will also appeal to advanced students in automatic control, electrical, power systems, mechanical engineering and robotics, as well as mechatronic, process, and applied control system engineers.

Power Converter of Electric Machines, Renewable Energy Systems, and Transportation Adolfo Dannier 2021-09-02 Power converters and electric machines represent essential components in all fields of electrical engineering. In fact, we are heading towards a future where energy will be more and more electrical: electrical vehicles, electrical motors, renewables, storage systems are now widespread. The ongoing energy transition poses new challenges for interfacing and integrating different power systems. The constraints of space, weight, reliability, performance, and autonomy for the electric system have increased the attention of scientific research in order to find more and more appropriate technological solutions. In this context, power converters and electric machines assume a key role in enabling higher performance of electrical power conversion. Consequently, the design and control of power converters and electric machines shall be developed accordingly to the requirements of the specific application, thus leading to more specialized solutions, with the aim of enhancing the reliability, fault tolerance, and flexibility of the next generation power systems.

British Railways A C Electric Locomotives David Cable 2017-11-30 The genesis of 25kv overhead electrification began in the late 1960s on the West Coast Main Line, the 1980s for the East Anglian Main Line, and the East Coast Main Line in the late 1980s. Development took place in stages culminating in fully electrified lines from London to Scotland on both East and West Coast lines, and from London to Norwich. The introduction of these lines required the construction of new motive power. Initially five types were produced for the WCML, from which the second phase of loco design was developed, giving a higher level of reliability, as well as power output. These newer designs were applied to the Anglian services, but the ECML plans required an updated design, ostensibly for mixed traffic, but hardly ever used on anything other than express

passenger services, for which their 140mph potential enabled a major recast of the timetable. The opening of the Channel Tunnel required a mixed traffic dual voltage locomotive, running on both 25kv and the Southern Region 750v third rail DC. The locomotives are classified between 81 and 92 inclusive, and this book of photographs by David Cable covers all the classes in a variety of locations and duties.

British Railways AC Electric Locomotives David Cable 2017 The genesis of 25kv overhead electrification began in the late 1960s on the West Coast Main Line, the 1980s for the East Anglian Main Line, and the East Coast Main Line in the late 1980s. Development took place in stages culminating in fully electrified lines from London to Scotland on both East and West Coast lines, and from London to Norwich. The introduction of these lines required the construction of new motive power. Initially five types were produced for the WCML, from which the second phase of loco design was developed, giving a higher level of reliability, as well as power output. These newer designs were applied to the Anglian services, but the ECML plans required an updated design, ostensibly for mixed traffic, but hardly ever used on anything other than express passenger services, for which their 140mph potential enabled a major recast of the timetable. The opening of the Channel Tunnel required a mixed traffic dual voltage locomotive, running on both 25kv and the Southern Region 750v third rail DC. The locomotives are classified between 81 and 92 inclusive, and this book of photographs by David Cable covers all the classes in a variety of locations and duties.

Mechatronics 2017 Tomáš Březina 2017-08-16 This book presents nearly 90 carefully selected contributions at the 12th International Conference Mechatronics, which took place in Brno, Czech Republic on 6–8 September 2017. Reflecting the most progressive and constantly changing areas of mechatronics, these proceedings includes papers concerning modeling and simulation, automatic control, robotics, sensors and actuators, electrical machines, and energy harvesting. It not only offers inspiration, but also deepens readers' interdisciplinary and integrated understanding of modern engineering. The book is intended for experts in the integration of electronic, mechanical, control and computer sciences.

XVI Pan American Railway Congress Congreso Panamericano de Ferrocarriles 1984

Fundamentals of Industrial Drives Sarkar B. N.

Electric Traction - Motive Power and Energy Supply Andreas Steimel 2008 This book conveys mechanical fundamentals of electric railway propulsion, which includes rail-bound guidance, transmission of traction effort from wheel to rail under the influence of non-constant levels of adhesion and the transmission of motor torque to a spring-mounted and thus sliding drive set.

Modeling and Simulation Based Analysis in Reliability Engineering Mangey Ram 2018-07-18 Recent developments in reliability engineering has become the most challenging and demanding area of research. Modeling and Simulation, along with System Reliability Engineering has become a greater issue because of high-tech industrial processes, using more complex systems today. This book gives the latest research advances in the field of modeling and simulation, based on analysis in engineering sciences. Features Focuses on the

latest research in modeling and simulation based analysis in reliability engineering. Covers performance evaluation of complex engineering systems Identifies and fills the gaps of knowledge pertaining to engineering applications Provides insights on an international and transnational scale Modeling and Simulation Based Analysis in Reliability Engineering aims at providing a reference for applications of mathematics in engineering, offering a theoretical sound background with adequate case studies, and will be of interest to researchers, practitioners, and academics.

Electric Railway Journal 1918

Proceedings of the 6th International Conference on Industrial Engineering (ICIE 2020) Andrey A. Radionov 2021-03-26 This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 6th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia in May 2020. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

Proceedings of the 3rd International Conference on Electrical and Information Technologies for Rail

Transportation (EITRT) 2017 Limin Jia 2018-03-29 The proceedings collect the latest research trends, methods and experimental results in the field of electrical and information technologies for rail transportation. The topics cover novel traction drive technologies of rail transportation, safety technology of rail transportation system, rail transportation information technology, rail transportation operational management technology, rail transportation cutting-edge theory and technology etc. The proceedings can be a valuable reference work for researchers and graduate students working in rail transportation, electrical engineering and information technologies.

Power Electronics and Electric Drives for Traction Applications Gonzalo Abad 2016-09-13 Power Electronics and Electric Drives for Traction Applications offers a practical approach to understanding power electronics applications in transportation systems ranging from railways to electric vehicles and ships. It is an application-oriented book for the design and development of traction systems accompanied by a description of the core technology. The first four introductory chapters describe the common knowledge and background required to understand the preceding chapters. After that, each application-specific chapter: highlights the significant manufacturers involved; provides a historical account of the technological evolution experienced; distinguishes the physics and mechanics; and where possible, analyses a real life example and provides the necessary models and simulation tools, block diagrams and simulation based validations. Key features: Surveys power electronics state-of-the-art in all aspects of traction applications. Presents vital design and development knowledge that is

extremely important for the professional community in an original, simple, clear and complete manner. Offers design guidelines for power electronics traction systems in high-speed rail, ships, electric/hybrid vehicles, elevators and more applications. Application-specific chapters co-authored by traction industry expert. Learning supplemented by tutorial sections, case studies and MATLAB/Simulink-based simulations with data from practical systems. A valuable reference for application engineers in traction industry responsible for design and development of products as well as traction industry researchers, developers and graduate students on power electronics and motor drives needing a reference to the application examples.

Electromagnetic Compatibility in Railways Ade Ogunsola 2012-08-14 A railway is a complex distributed engineering system: the construction of a new railway or the modernisation of a existing one requires a deep understanding of the constitutive components and their interaction, inside the system itself and towards the outside world. The former covers the various subsystems (featuring a complex mix of high power sources, sensitive safety critical systems, intentional transmitters, etc.) and their interaction, including the specific functions and their relevance to safety. The latter represents all the additional possible external victims and sources of electromagnetic interaction. EMC thus starts from a comprehension of the emissions and immunity characteristics and the interactions between sources and victims, with a strong relationship to electromagnetics and to system modeling. On the other hand, the said functions are achieved and preserved and their relevance for safety is adequately handled, if the related requirements are well posed and managed throughout the process from the beginning. The link is represented by standards and their correct application, as a support to analysis, testing and demonstration.

The Engineering Index 1901