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Powertrain Blockset<sup>®</sup> provides fully assembled reference application models of automotive powertrains, including gasoline, diesel, hybrid, and electric systems. It includes a component library for simulating engine subsystems, transmission assemblies, traction motors, battery packs, and controller models.

Simscape, a Matlab/Simulink toolbox for modeling physical systems, is the ideal platform for developing and deploying models for hybrid and electric vehicle systems and sub-systems. This book is step-by-step guide through the process of developing precise and accurate models for all critical areas of hybrid and electric vehicles. For electric and hybrid technology to deliver superior performance and efficiency, all sub-systems have to work seamlessly and in unison every time and all the time. To ensure this level of precision and reliability, modeling and simulation play crucial roles during the design and

development cycle of electric and hybrid vehicles. The majority of books currently on the market discuss relevant technologies and the physics and engineering of hybrid and electric vehicles. This book is unique by focusing on developing models of physical systems at the core of these vehicles using the tool of choice, Simscape. Relevant background and appropriate theory are referenced and summarized in the context of model development with significantly more emphasis on the model development procedure and obtaining usable and accurate results.

A comprehensive text, combining all important concepts and topics of Electrical Machines and featuring exhaustive simulation models based on MATLAB/Simulink Electrical Machine Fundamentals with Numerical Simulation using MATLAB/Simulink provides readers with a basic understanding of all key concepts related to electrical machines (including working principles, equivalent circuit, and analysis). It elaborates the fundamentals and offers numerical problems for students to work through. Uniquely, this text includes simulation models of every type of machine described in the book, enabling students to design and analyse machines on their own. Unlike other books on the subject, this book meets all the needs of students in electrical machine courses. It balances analytical treatment, physical explanation, and hands-on examples and models with a range of difficulty levels. The authors present complex ideas in simple, easy-to-understand language, allowing students in all engineering disciplines to build a solid foundation in the principles of electrical machines. This book: Includes clear elaboration of fundamental concepts in the area of electrical machines, using simple language for optimal and enhanced learning Provides wide coverage of topics, aligning with the electrical machines syllabi of most international universities Contains extensive numerical problems and offers MATLAB/Simulink simulation models for the covered machine types Describes MATLAB/Simulink modelling procedure and introduces the modelling environment to novices Covers magnetic circuits, transformers, rotating machines, DC machines, electric vehicle motors, multiphase machine concept, winding design and details, finite element analysis, and more Electrical Machine Fundamentals with Numerical Simulation using MATLAB/Simulink is a well-balanced textbook perfect for undergraduate students in all engineering majors. Additionally, its comprehensive treatment of electrical machines makes it suitable as a reference for researchers in the field.

The Formula Hybrid (TradeMark) is a collegiate design competition program sanctioned and organized by the Society of Automotive Engineers (SAE). The competition focuses on hybrid technology to underline the importance of environmentally friendly technologies and its automotive application. The Formula Hybrid team at the University of North Carolina at Charlotte intends to participate in the competition, and it is required to comply with the rules that adds a new level of complexity to the already existing criteria. This thesis covers the work for developing a system level model in MATLAB/Simulink of the hybrid vehicle to be designed for the competition. Prior to this work, a 1-D turbocharged single cylinder diesel engine was developed on GT-Suite (1-D engine flow modeling software) which was validated using the experimental data that was collected at the NC Motorsports Automotive Research Center (NCMARC), UNC Charlotte. The results obtained from this setup were integrated into the MATLAB/Simulink model to further study the performance of the powertrain components such as the IC engine and transmission when integrated into the vehicle. The primary scope of this thesis is to size the Electric Motors (EM) that make up the hybrid powertrain. Thus, two separate DC electric motors were modeled and scaled accordingly for vehicle propulsion. An Electrically Variable Transmission (EVT) is used to complete the drive-train. Final results were verified by comparing the outputs of the simulation to the demand vehicle speed. The results obtained may be used by the UNCC SAE Formula Hybrid team to design the vehicle for the competition.

Setting out core theory and reviewing a range of new methods, theoretical problems and applications, this handbook shows how hybrid dynamical systems

can be modelled and understood. Sixty expert authors involved in the recent research activities and industrial application studies provide practical insights on topics ranging from the theoretical investigations over computer-aided design to applications in energy management and the process industry. Structured into three parts, the book opens with a thorough introduction to hybrid systems theory, illustrating new dynamical phenomena through numerous examples. Part II then provides a survey of key tools and tool integration activities. Finally, Part III is dedicated to applications, implementation issues and system integration, considering different domains such as industrial control, automotive systems and digital networks. Three running examples are referred to throughout the book, together with numerous illustrations, helping both researchers and industry professionals to understand complex theory, recognise problems and find appropriate solutions.

Languages and Tools for Hybrid Systems Design is a survey of languages and tools for the design and verification of hybrid systems. The book reviews and compares hybrid system tools by highlighting their differences in terms of their underlying semantics, expressive power and mathematical mechanisms. The review concludes with a comparative summary, which suggests the need for a unifying approach to hybrid systems design. As a step in this direction, the case is made for a semantic-aware interchange format, which would enable the use of joint techniques, make a formal comparison between different approaches possible, and facilitate exporting and importing design representations. Languages and Tools for Hybrid Systems Design is also intended to equip researchers, application developers and managers with key references and resource material for the successful development of hybrid systems.

A comprehensive and up-to-date reference book on modern electric vehicle technology, which covers the engineering philosophy, state-of-the-art technology, and commercialisation of electrical vehicles.

The reduction of greenhouse gas emissions is a major governmental goal worldwide. The main target, hopefully by 2050, is to move away from fossil fuels in the electricity sector and then switch to clean power to fuel transportation, buildings and industry. This book discusses important issues in the expanding field of wind farm modeling and simulation as well as the optimization of hybrid and micro-grid systems. Section I deals with modeling and simulation of wind farms for efficient, reliable and cost-effective optimal solutions. Section II tackles the optimization of hybrid wind/PV and renewable energy-based smart micro-grid systems.

This new volume covers the important issues related to environmental emissions from SI and CI engines as well as their formation and various pollution mitigation techniques. The book addresses aspects of improvements in engine modification, such as design modifications for enhanced performance, both with conventional fuels as well as with new and alternative fuels. It also explores some new combustion concepts that will help to pave the way for complying with new emission concepts. Alternative fuels are addressed in this volume to help mitigate harmful emissions, and alternative power sources for automobiles are also discussed briefly to cover the switch over from fueled engines to electrics, including battery-powered electric vehicles and fuel cells. The authors explain the different technologies available to date to overcome the limitations of conventional prime movers (fueled by both fossil fuels and alternative fuels). Topics examined include: □ Engine modifications needed to limit harmful emissions □ The use of engine after-treatment devices to contain emissions □ The development of new combustion concepts □ Adoption of alternative fuels in existing engines □ Switching over to electrics □ advantages and limitations □ Specifications of highly marketed automobiles □ Emission measurement methods

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