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### RHHOFZ - JOSEPH ZACHARY

Electric motors are the largest consumer of electric energy and they play a critical role in the growing market for electrification. Due to their simple construction, switched reluctance motors (SRMs) are exceptionally attractive for the industry to respond to the increasing demand for high-efficiency, high-performance, and low-cost electric motors with a more secure supply chain. Switched Reluctance Motor Drives: Fundamentals to Applications is a comprehensive textbook covering the major aspects of switched reluctance motor drives. It provides an overview of the use of electric motors in the industrial, residential, commercial, and transportation sectors. It explains the theory behind the operation of switched reluctance motors and provides models to analyze them. The book extensively concentrates on the fundamentals and applications of SRM design and covers various design details, such as materials, mechanical construction, and controls. Acoustic noise and vibration is the most well-known issue in switched reluctance motors, but this can be reduced significantly through a multidisciplinary approach. These methodologies are explained in two chapters of the book. The first covers the fundamentals of acoustic noise and vibration so readers have the necessary tools to analyze the problems and explains the surface waves, spring-mass models, forcing harmonics, and mode shapes that are utilized in modeling and analyzing acoustic noise and vibration. The second applies these fundamentals to switched reluctance motors and provides examples for determining the sources of any acoustic noise in switched reluctance motors. In the final chapter two SRM designs are presented and proposed as replacements for permanent magnet machines in a residential HVAC application and a hybrid-electric propulsion application. It also shows a high-power and compact converter design for SRM drives. Features: Comprehensive coverage of switched reluctance motor drives from fundamental principles to design, operation, and applications A specific chapter on electric motor usage in industrial, residential, commercial, and transportation applications to address the benefits of switched reluctance machines Two chapters address acoustic noise and vibration in detail Numerous illustrations and practical examples on the design, modeling, and analysis of switched reluctance motor drives Examples of switched reluctance motor and drive design

The Accessible Guide to Modern Wireless Communication for Undergraduates, Graduates, and Practicing Electrical Engineers Wireless communication is a critical discipline of electrical engineering and computer science, yet the concepts have remained elusive for students who are not specialists in the area. This text makes digital communication and receiver algorithms for wireless communication broadly accessible to undergraduates, graduates, and practicing electrical engineers. Notably, the book builds on a signal processing foundation and does not require prior courses on analog or digital communication. Introduction to Wireless Digital Communication establishes the principles of communication, from a digital signal processing perspective, including key mathematical background, transmitter and receiver signal processing algorithms, channel models, and generalizations to multiple antennas. Robert Heath's "less is more" approach focuses on typical solutions to common problems in wireless engineering. Heath presents digital communication fundamentals from a signal processing perspective, focusing on the complex pulse amplitude modulation approach used in most commercial wireless systems. He describes specific receiver algorithms for implementing wireless communication links, including synchronization, carrier frequency offset estimation, channel estimation, and equalization. While most concepts are presented for systems with single transmit and receive antennas, Heath concludes by extending those concepts to contemporary MIMO systems. To promote learning, each chapter includes previews, bullet-point summaries, examples, and numerous homework problems to help readers test their knowledge. Basics of wireless communication: applications, history, and the central role of signal processing Digital communication essentials: components, channels, distortion, coding/decoding, encryption, and modulation/demodulation Signal processing: linear time invariant systems, probability/random processes, Fourier transforms, derivation of complex baseband signal representation and equivalent channels, and multi-rate signal processing Least-squared estimation techniques that build on the linear algebra typically taught to electrical engineering undergraduates Complex pulse amplitude modulation: symbol mapping, constellations, signal bandwidth, and noise Synchronization, including symbol, frame, and carrier frequency offset Frequency selective channel estimation and equalization MIMO techniques using multiple transmit and/or receive antennas, including SIMO, MISO, and MIMO-OFDM Register your product at [informit.com/register](http://informit.com/register) for con-

venient access to downloads, updates, and corrections as they become available.

Auto Repair For Dummies, 2nd Edition (9781119543619) was previously published as Auto Repair For Dummies, 2nd Edition (9780764599026). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The top-selling auto repair guide--400,000 copies sold--now extensively reorganized and updated Forty-eight percent of U.S. households perform at least some automobile maintenance on their own, with women now accounting for one third of this \$34 billion automotive do-it-yourself market. For new or would-be do-it-yourself mechanics, this illustrated how-to guide has long been a must and now it's even better. A complete reorganization now puts relevant repair and maintenance information directly after each automotive system overview, making it much easier to find hands-on fix-it instructions. Author Deanna Sclar has updated systems and repair information throughout, eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and added new advice on troubleshooting problems and determining when to call in a professional mechanic. For anyone who wants to save money on car repairs and maintenance, this book is the place to start. Deanna Sclar (Long Beach, CA), an acclaimed auto repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs.

This book consists of chapters based on selected papers presented at the EcoDesign2015 symposium (9th International Symposium on Environmentally Conscious Design and Inverse Manufacturing). The symposium, taking place in Tokyo in December 2015, has been leading the research and practices of eco-design of products and product-related services since it was first held in 1999. The proceedings of EcoDesign2011 were also published by Springer. Eco-design of products and product-related services (or product life cycle design) are indispensable to realize the circular economy and to increase resource efficiencies of our society. This book covers the state of the art of the research and the practices in eco-design, which are necessary in both developed and developing countries. The chapters of the book, all of which were peer-reviewed, have been contributed by authors from around the world, especially from East Asia, Europe, and Southeast Asia. The features of the book include (1) coverage of the latest topics in the field, e.g., global eco-design management, data usage in eco-design, and social perspectives in eco-design; (2) an increased number of authors from Southeast Asian countries, with a greater emphasis on eco-design in emerging economies; (3) high-quality manuscripts, with the number of chapters less than half of that of the previous book.

Presenting the gradual evolution of the concept of Concurrent Engineering (CE), and the technical, social methods and tools that have been developed, including the many theoretical and practical challenges that still exist, this book serves to summarize the achievements and current challenges of CE and will give readers a comprehensive picture of CE as researched and practiced in different regions of the world. Featuring in-depth analysis of complex real-life applications and experiences, this book demonstrates that Concurrent Engineering is used widely in many industries and that the same basic engineering principles can also be applied to new, emerging fields like sustainable mobility. Designed to serve as a valuable reference to industry experts, managers, students, researchers, and software developers, this book is intended to serve as both an introduction to development and as an analysis of the novel approaches and techniques of CE, as well as being a compact reference for more experienced readers. Current energy consumption mainly depends on fossil fuels that are limited and can cause environmental issues such as greenhouse gas emissions and global warming. These factors have stimulated the search for alternate, clean, and renewable energy sources. Solar cells are some of the most promising clean and readily available energy sources. Plus, the successful utilization of solar energy can help reduce the dependence on fossil fuels. Recently, organic solar cells have gained extensive attention as a next-generation photovoltaic technology due to their light weight, mechanical flexibility, and solution-based cost-effective processing. Organic Solar Cells: Materials, Devices, Interfaces, and Modeling provides an in-depth understanding of the current state of the art of organic solar cell technology. Encompassing the full spectrum of organic solar cell materials, modeling and simulation, and device physics and engineering, this comprehensive text: Discusses active layer, interfacial, and transparent electrode materials Ex-

plains how to relate synthesis parameters to morphology of the photoactive layer using molecular dynamics simulations Offers insight into coupling morphology and interfaces with charge transport in organic solar cells Explores photoexcited carrier dynamics, defect states, interface engineering, and nanophase separation Covers inorganic-organic hybrids, tandem structure, and graphene-based polymer solar cells Organic Solar Cells: Materials, Devices, Interfaces, and Modeling makes an ideal reference for scientists and engineers as well as researchers and students entering the field from broad disciplines including chemistry, material science and engineering, physics, nanotechnology, nanoscience, and electrical engineering.

Are you tired of having to write down all your ideas, characters and maps on random papers and then not finding out where they are? Cute notebook journal that makes a wonderful gift for everyone. This journal is ideal to use as a journal planner, to do list, diary, or notebook to keep track of your daily tasks and appointments. This handy journal (6x9 in) is made of 110 pages of lined paper. ==>Great size (6x9) to carry everywhere in your bag (soft matte cover, 110 pages, high quality paper)==>Perfect for both travel and fitting right on your bedside table. ==>Great for School, Work, Journaling, home, and everyday use.==> Plenty of room to record personal thoughts, goals, unforgettable memories, and things to remember.

Since the publication of the Second Edition in 2001, there have been considerable advances and developments in the field of internal combustion engines. These include the increased importance of biofuels, new internal combustion processes, more stringent emissions requirements and characterization, and more detailed engine performance modeling, instrumentation, and control. There have also been changes in the instructional methodologies used in the applied thermal sciences that require inclusion in a new edition. These methodologies suggest that an increased focus on applications, examples, problem-based learning, and computation will have a positive effect on learning of the material, both at the novice student, and practicing engineer level. This Third Edition mirrors its predecessor with additional tables, illustrations, photographs, examples, and problems/solutions. All of the software is 'open source', so that readers can see how the computations are performed. In addition to additional java applets, there is companion Matlab code, which has become a default computational tool in most mechanical engineering programs.

This lively and engaging new book addresses a topical and important area of study. Helping readers not only to understand, but also to apply, the most important theoretical notions on identity, identification, reputation and corporate branding, it illustrates how communicating with a company's key audience depends upon all of the company's internal and external communication. The authors, leading experts in this field, provide students of corporate communication with a research-based tool box to be used for effective corporate communications and creating a positive reputation. Essentials of Corporate Communication features original examples and vignettes, drawn from a variety of US, European and Asian companies with a proven record of successful corporate communication, thus offering readers best practice examples. Illustrations are drawn from such global companies as Virgin, IKEA, INVE and Lego. Presenting the most up-to-date content available it is a must-read for all those studying and working in this field.

This book focuses on natural gas and synthetic methane as contemporary and future energy sources. Following a historical overview, physical and chemical properties, occurrence, extraction, transportation and storage of natural gas are discussed. Sustainable production of natural gas and methane as well as production and storage of synthetic methane are scrutinized next. A substantial part of the book addresses construction of vehicles for natural and synthetic methane as well as large engines for industrial and maritime use. The last chapters present some perspectives on further uses of renewable liquid fuels as well as natural gas for industrial engines and gas power plants.

SQL Quickstart Guide SQL is the standard language used for retrieval and manipulating databases. SQL stands for Structured Query Language. It is one of the programming languages that is developed for managing data which is stored in a relational database management system (RDBMS). SQL language operates through use of declarative statements, by this access it ensures that the data is accurate and secure, it also helps maintain the integrity of databases, no matter its size. SQL is widely used today across most web frameworks and database applications. Understanding SQL gives you the liberty to explore data, and make better decisions. One of the benefits of learning SQL language is that, you also learn concepts that are similar to nearly every RDBMS. SQL will execute queries against a database SQL will get data from a

database SQL will Insert records in a database SQL will upgrade records in a database SQL will erase records from a database SQL will build new databases SQL will build new tables in a database SQL will build keep procedures in a database SQL will build views in a database SQL will set authorizations on tables, techniques, and views SQL could be a customary Buy the book and learn basics of SQL quickly.....

For centuries, across nations, dialogue between the domestic and the foreign has affected and transformed architecture. Today these dialogues have become highly intensified. The Domestic and the Foreign in Architecture examines how these exchanges manifest themselves in contemporary architecture, in terms of its aesthetic potential and its practice, which, in turn, are impacted by broad economic, cultural and political issues. This book traces how diverse cultural encounters inevitably modify conventional categories, standards and codes of architecture, such as domestic identity, its political and economic representations and the negotiations with what is deemed foreign. Theoretical reflections by distinguished scholars are accompanied by interviews with some of the most influential architects practicing today, as well as stunning visual presentations by professional photographers.

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Traditional conceptions of democratic citizenship are being challenged by developments such as migration, populism, increasing polarization, social fragmentation, and digital communication technology. This book considers recent conceptions of citizenship by bringing together insights from different disciplines.

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A sustainable enterprise is one that contributes to sustainable development by simultaneously delivering economic, social and environmental benefits or what has been termed "the triple bottom line." While pursuing profit, socially responsible companies should be sensitive to the environment and uphold the rights of all the firm's stakeholders. This edited volume explores leading-edge ideas — both by academics and forward-thinking companies — to (re)design and market products, source, manufacture, and eventually distribute and recover or dispose of them in an environmentally, ecologically, and socially responsible way. This edited volume is made up of fifteen chapters loosely grouped into clusters. After an introduction, chapter 2 shows the greenhouse emissions at various levels, from countries all the way to individual products. Chapters 3-7 each focus on an industrial sector and address issues specific to that industry, with chapter 7 presenting a case study on LEED certification of Miller Hall, home of the Mason School of Business where two of the authors (Tonya and Ram) work. Chapters 8-10 address product take back in the supply chain. Chapter 8 introduces e-waste and surveys what firms are doing to combat it. Chapter 9 provides an overview of existing take-back legislation and academic papers that have studied various research questions associated with them. Chapter 10 is a tutorial that addresses the problem of product disposition on a closed-loop supply chain: what should a firm do with a product return? Chapters 11-15 address measurement, monitoring, decision-making, and reporting regarding environmental issues in a firm. Chapter 11 provides an academic survey of eco-labeling and the consumer's willingness to pay for them. Chapter 12 discusses how firms can measure the total carbon footprint in their supply chains and some of the strategies they can use to mitigate carbon emissions. Using the price of call options, chapter 13 illustrates

how managers can quantify the savings attributed to sustainability-related investment. Chapter 14 develops a non-linear optimization model that addresses the complex trade-offs involved in making joint operational and environmental decisions. Finally, chapter 15 develops a Data Envelopment Analysis-based method for supplier evaluation incorporating environmental and business factors. This is the first volume of a two-volume work which summarizes in an edited format and in a fairly comprehensive manner many of the recent technical research accomplishments in the area of Elastomers. "Advances in Elastomers" discusses the various attempts reported on solving these problems from the point of view of the chemistry and the structure of elastomers, highlighting the drawbacks and advantages of each method. It summarizes the importance of elastomers and their multiphase systems in human life and industry, and covers all the topics related to recent advances in elastomers, their blends, IPNs, composites and nanocomposites. This first volume focuses on advances on the blends and interpenetrating networks (IPNs) of elastomers.

Passage to Faith is Book 1 in The Faith Today Trilogy series. Passage to Faith explores current scientific evidence supporting the case for the existence of a creator God. It draws on dozens of historical testimonies of individuals who had encounters with a Supreme Being which influenced them to change their lives, and sometimes the world, for the better. Taking the reader on an evidence-based tour through the cosmos, Lee, qualified in the fields of the philosophy of futures studies, theology, literature and education, reveals a stunning degree of indwelling intelligence and beauty on display throughout the universe and on Earth. He then traces the common ground between the creation account in Genesis in the Bible and scientific cosmology, the Big Bang theory and Albert Einstein's theory of relativity. Lee discusses the faith of a wide range of people from different eras and disciplines to reinforce the conviction that God's redeeming power actively intervenes not just in nature but in history. These examples include, among others, figures from history like Joan of Arc, Nelson Mandela and Barack and Michelle Obama, scientists and mathematicians like Copernicus, Galileo, Kepler, Newton, Faraday, Mendel, Pasteur, Pascal, George Washington Carver, Dr Wernher von Braun, Professor Christiaan Barnard and Francis S. Collins, missionaries like John Wesley, Mother Theresa, Dr David Livingstone, Dr Albert Schweitzer, and Jackie Pullinger, singers, entertainers, and actors such as Bob Dylan, Johnny Cash, Jim Reeves, Glen Campbell, Alice Cooper, Gary Cooper, John Wayne, Alfred Hitchcock, Mark Wahlberg, Mel Gibson, Sylvester Stallone, and Bear Grylls, men and women from the sports arena like George Foreman, Novak Djokovic, Simona Halep, Margaret Court and Siya Kolisi, as well as astronauts such as Dr Buzz Aldrin, David Randolph Scott and Gene Cernan. COMING SOON: Book 2, A New Logic to Faith 10% of royalties earned for sales of Passage to Faith will be donated to [www.breadlineafrica.org](http://www.breadlineafrica.org) annually

"POWERFUL AND ORIGINAL." --THE TIMES "REWARDING AND WHOLLY ENGAGING." --HISTORICAL NOVEL SOCIETY "ONE OF THE MOST IMPORTANT AND POWERFUL NOVELS OF RECENT GERMAN LITERATURE." --DEUTSCHLANDRADIO KULTUR Hypnotically lyrical and intensely moving, Steven Uhly's epic novel set in the wake of World War II is a finely nuanced yet shattering exploration of universal themes: love, hatred, doubt, survival, guilt, humanity, and redemption. One night in autumn 1944, a gunshot echoes through the alleyways of a small town in occupied Poland. An SS officer is shot dead by a young Polish Jew, Margarita Eizenstein. In retaliation, his commander orders the execution of thirty-seven Poles--one for every year of the dead man's life. First hidden by a sympathetic German couple, Margarita must then flee the brutal advance of the Soviet army with her newborn baby. So begins a thrilling panorama of intermingled destinies and events that reverberate from that single act of defiance. Kingdom of Twilight follows the lives of Jewish refugees and a German family resettled from Bukovina, as well as a former SS officer, chronicling the geographical and psychological dislocation generated by war. A quest for identity and truth takes them from refugee camps to Lübeck, Berlin, Tel Aviv, and New York, as they try to make sense of a changed world, and of their place in it.

A Healthy Body contributes to a Healthy Mind Have you ever wished for a Manual on the Human Body that is not geared towards emphasizing a particular point of view, or aimed at making you buy some or other product? You, an Owner's Manual, is exactly what you are looking for - useful, helpful, and excellent practical information that will help you lead a healthy and happy life. The human being is one of the few things in life that does not come with a user manual. We are largely left to our own devices in finding out what it comprises, how it operates, what it runs best on, how it should be treated, what its ideal operating ranges are, and so forth. This book is an attempt to rectify this situation by collecting together in one place pertinent knowledge amassed over the ages and putting it in simple terms everyone can understand. The aim is to provide a basic knowledge of the body, its workings, and what we should do to keep it in good working order, both mentally and physically. This book does not purport to be a medical journal and it is stressed that any doubts as to health matters should always be addressed with the relevant medical practitioners.

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Proudly Presents our latest Blank Journal Series with Dot Grid Interior! This Cute Dot Grid Planner Book will help preserve your memories and get organized, one page at a time! Standard dotted grid interior is just waiting for creatives to get to work and organize their lives! First time or long time dot grid journal users will love receiving this as a gift with some Journal Supplies! Gorgeous and hand-designed covers by our designers, our Bullet Planner Journals can help you restore some sanity and can hold everything your heart desires including your own created index, monthlies, dailies, collections, and a future log. Add your schedule, mood tracker, to do list, travel plans, food diary and anything else that you can create and want to track. This Planner Organizer book is just waiting to be FILLED with your own unique weekly spread, goal tracker, schedule, doodles, art, photos, memories and the opportunity to document your life! So, grab your planner stickers, some gel pens, your colorful tape and create your own Ultimate Keepsake Journal Today! This standard size, 5.5" x 8.5" (13.97 x 21.59 cm) sized softcover Planner has 120 pages (60 Double Sided Sheets) on thick and sturdy paper, a brilliant cover, and makes an Amazing Birthday, Bridesmaid or Holiday gift NOTE: Any Gold or Glitter on the Book Cover is Faux Many other Book Covers, designs and colors available from The Dot Grid Journal Queen!

Erotic memoir

The Porsche 911, introduced in 1963, is still the world's favorite high-performance sports car. Rather like the car it describes, the evergreen Porsche 911 Story continues to delight marque enthusiasts of all ages, having been originally published in 1976 and having remained in print ever since, through eight editions. Describing the full history of this timeless sports car, this classic book is brought right up to date in a totally redesigned ninth edition that includes details of the models produced since 2006. Respected motoring journalist and Porsche expert Tony Dron picks up the torch to update this definitive work by the late Paul Frère.

Contributions by Surhid Gautam and Lit-Mian Chan. This book presents a state-of-the art review of vehicle emission standards and regulations and provides a synthesis of worldwide experience with vehicle emission control technologies and their applications in both industrial and developing countries. Topics covered include: \* The two principal international systems of vehicle emission standards: those of North America and Europe \* Test procedures used to verify compliance with emissions standards and to estimate actual emissions \* Engine and aftertreatment technologies that have been developed to enable new vehicles to comply with emission standards, as well as the cost and other impacts of these technologies \* An evaluation of measures for controlling emissions from in-use vehicles \* The role of fuels in reducing vehicle emissions, the benefits that could be gained by reformulating conventional gasoline and diesel fuels, the potential benefits of alternative cleaner fuels, and the prospects for using hydrogen and electric power to run motor vehicles with ultra-low or zero emissions. This book is the first in a series of publications on vehicle-related pollution and control measures prepared by the World Bank in collaboration with the United Nations Environment Programme to underpin the Bank's overall objective of promoting transport that is environmentally sustainable and least damaging to human health and welfare.

Perched on an island off the shores of Cornwall, the soaring castle of St Michael's Mount has been home to Fiona St Aubyn's family since 1647. For nearly thirty years, Stanley Ager, one of the most celebrated butlers of the twentieth century, ensured that St Michael's Mount was an impeccable place to live and a gracious and welcoming destination for guests. But you don't need a manor to benefit from Ager's wisdom on running a home gracefully and efficiently. This charmingly illustrated, eminently useful volume offers his important wisdom and techniques.

Having spent her childhood at the Owl House and returned to nurse her ageing parents, artist Helen Martins totally transformed its interior and garden. Described as an integrated environmental artwork, the Owl House has become a popular off-the-beaten-track attraction for tourists.

Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards (US National Highway Traffic Safety Administration Regulation) (NHTSA) (2018 Edition) The Law Library presents the complete text of the Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards (US National Highway Traffic Safety Administration Regulation) (NHTSA) (2018 Edition). Updated as of May 29, 2018 EPA and NHTSA are issuing this joint Final Rule to establish a National Program consisting of new standards for light-duty vehicles that will reduce greenhouse gas emissions and improve fuel economy. This joint Final Rule is consistent with the National Fuel Efficiency Policy announced by President Obama on May 19, 2009, responding to the country's critical need to address global climate change and to reduce oil consumption. EPA is finalizing greenhouse gas emissions standards under the Clean Air Act, and NHTSA is finalizing Corporate Average Fuel Economy standards under the Energy Policy and Conservation Act, as amended. These standards apply to passenger cars, light-duty trucks, and medium-duty passenger vehicles, covering model years 2012 through 2016, and represent a harmonized and consistent National Program. Under the National Program, automobile manufacturers will be able to build a single light-duty national

fleet that satisfies all requirements under both programs while ensuring that consumers still have a full range of vehicle choices. NHTSA's final rule also constitutes the agency's Record of Decision for purposes of its National Environmental Policy Act (NEPA) analysis. This book contains: - The complete text of the Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards (US National Highway Traffic Safety Administration Regulation) (NHTSA) (2018 Edition) - A table of contents with the page number of each section

The authors have cleverly used exercises and their solutions to explore the concepts of multivariate data analysis. Broken down into three sections, this book has been structured to allow students in economics and finance to work their way through a well formulated exploration of this core topic. The first part of this book is devoted to graphical techniques. The second deals with multivariate random variables and presents the derivation of estimators and tests for various practical situations. The final section contains a wide variety of exercises in applied multivariate data analysis. Errors in using computers for engineering design have led to drastic failures such as the sinking of the newly constructed Sleipner A

offshore gravity platform in a Norwegian fjord in 1990. This structure was over 100m high, with a base area of some 16 000m<sup>2</sup>, and cost several million dollars. These new guidelines advocate a logical and disciplined approach to computer-assisted engineering based around a process where each stage has built-in checks. As the main theme of *Improving Complex Systems Today* implies, this book is intended to provide readers with a new perspective on concurrent engineering from the standpoint of systems engineering. It can serve as a versatile tool to help readers to navigate the ever-changing state of this particular field. The primary focus of concurrent engineering was, at first, on bringing downstream information as far upstream as possible by introducing parallel processing in order to reduce time to market and to prevent errors at a later stage which would sometimes cause irrevocable damage. Up to now, numerous new concepts, methodologies and tools have been developed, but over concurrent engineering's 20-year history the situation has changed extensively. Now, industry has to work in the global marketplace and to cope with diversifying requirements and increasing complexities. Such globalization and diversification necessitate collaboration across different fields and across national boundaries. Thus, the new concurrent engi-

neering calls for a systems approach to gain global market competitiveness. *Improving Complex Systems Today* provides a new insight into concurrent engineering today.

This book explores the concept of incongruent film music, challenging the idea that this label only describes music that is inappropriate or misfitting for a film's images and narrative. Defining incongruence as a lack of shared properties in the audiovisual relationship, this study examines various types of incongruence between a film and its music and considers the active role that it can play in the construction of a film's meaning and influencing audience response. Synthesising findings from research in the psychology of music in multimedia, as well as from ideas sourced in semiotics, film music, and poststructuralist theory, this interdisciplinary book provides a holistic perspective that reflects the complexity of moments of film-music incongruence. With case studies including well-known films such as *Gladiator* and *The Shawshank Redemption*, this book combines scene analysis and empirical audience reception tests to emphasise the subjectivity, context-dependency, and multi-dimensionality inherent in identifying and interpreting incongruent film music.