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KEY=OWNERS - BRAYLON EVAN

Product Lifecycle Management (Volume 4): The Case Studies Springer This book presents some twenty case studies, showing how companies in different industry sectors and of different sizes make advances in Product Lifecycle Management (PLM). Like the author's previous volumes, this book provides a valuable resource for those wishing to learn about PLM and how to implement and apply it in their companies. Helping readers to · learn about implementing and benefiting from PLM; · learn about good PLM solutions and best practice; · improve their planning and decision-making abilities; · benefit from the lessons learned by the companies featured in the case studies; · proceed faster and further with PLM the book presents effective PLM solutions and best practices. At the same time, the case studies included demonstrate how different companies implement and benefit from PLM. Each case study is addressed in a separate chapter and details a different situation, enabling readers to put themselves in the situation and think through different actions and decisions. A valuable resource for PLM team managers and employees in engineering and manufacturing companies, the book is also of interest to researchers and students in industrial engineering fields. The Car Design Yearbook Vauxhall/Opel Meriva Haynes Service and Repair Manuals A maintenance and repair manual for the DIY mechanic. Automotive User Interfaces Creating Interactive Experiences in the Car Springer This book focuses on automotive user interfaces for in-vehicle usage, looking at car electronics, its software of hidden technologies (e.g., ASP, ESP), comfort functions (e.g., navigation, communication, entertainment) and driver assistance (e.g., distance checking). The increased complexity of automotive user interfaces, driven by the need for using consumer electronic devices in cars as well as autonomous driving, has sparked a plethora of new research within this field of study. Covering a broad spectrum of detailed topics, the authors of this edited volume offer an outstanding overview of the current state of the art; providing deep insights into usability and user experience, interaction techniques and technologies as well as methods, tools and its applications, exploring the increasing importance of Human-Computer-Interaction (HCI) within the automotive industry Automotive User Interfaces is intended as an authoritative and valuable resource for professional practitioners and researchers alike, as well as computer science and engineering students who are interested in automotive interfaces. Digital Entrepreneurship Impact on Business and Society Springer Nature This open access book explores the global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial intelligence to enhance the quality of decisions and augment their business and customer operations. This book demonstrates how cloud services are continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management. "Digitalization mirrors the Industrial Revolution's impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work." Gina O'Connor, Professor of Innovation Management at Babson College, USA "This book defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical technologies. This is truly a unique "must-read" book because it goes beyond theory and provides practical examples." Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA "This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures." Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany Advanced Combustion Techniques and Engine Technologies for the Automotive Sector Springer Nature This book discusses the recent advances in combustion strategies and engine technologies, with specific reference to the automotive sector. Chapters discuss the advanced combustion technologies, such as gasoline direct ignition (GDI), spark assisted compression ignition (SACI), gasoline compression ignition (GCI), etc., which are the future of the automotive sector. Emphasis is given to technologies which have the potential for utilization of alternative fuels as well as emission reduction. One special section includes a few chapters for methanol utilization in two-wheelers and four wheelers. The book will serve as a valuable resource for academic researchers and professional automotive engineers alike. MAP and TOP Advanced Manufacturing Communications Springer Science & Business Media Advances in technology are making the business and manufacturing environment increasingly complex. Standards can help us cope with this complexity. Given the strategic importance of computers in the economies of the industrial world, it is fitting that one of the most significant commercial stories of our time is the standardization of computer communications. Quite frankly, when we joined with other computer users to launch this effort we didn't predict its scope and we should have done. public visibility. In retrospect, I guess The computer assisted technologies looming on the horizon offer some of the greatest functional and productivity tools available to improve business operations. However, the absence of a standardized electronic link permeating most business organizations poses a severe impediment to the efficient deployment of this technology. The feasibility of using computer controlled devices to design, test, and manufacture products - as part of a massive network - is well within our technological grasp. However, unless the world agrees upon a global set of standards that will make multi-vendor computer systems interoperable, successful implementation of these technologies becomes less and less attractive. Social Media Analytics Strategy Using Data to Optimize Business Performance Apress This book shows you how to use social media analytics to optimize your business performance. The tools discussed will prepare you to create and implement an effective digital marketing strategy. From understanding the data and its sources to detailed metrics, dashboards, and reports, this book is a robust tool for anyone seeking a tangible return on investment from social media and digital marketing. Social Media Analytics Strategy speaks to marketers who do not have a technical background and creates a bridge into the digital world. Comparable books are either too technical for marketers (aimed at software developers) or too basic and do not take strategy into account. They also lack an overview of the entire process around using analytics within a company project. They don't go into the everyday details and also don't touch upon common mistakes made by marketers. This book highlights patterns of common challenges experienced by marketers from entry level to directors and C-level executives. Social media analytics are explored and explained using real-world examples and interviews with experienced professionals and founders of social media analytics companies. What You'll Learn Get a clear view of the available data for social media marketing and how to access all of it Make use of data and information behind social media networks to your favor Know the details of social media analytics tools and platforms so you can use any tool in the market Apply social media analytics to many different real-world use cases Obtain tips from interviews with professional marketers and founders of social media analytics platforms Understand where social media is heading, and what to expect in the future Who This Book Is For Marketing professionals, social media marketing specialists, analysts up to directors and C-level executives, marketing students, and teachers of social media analytics/social media marketing Auditory Display 6th International Symposium, CMMR/ICAD 2009, Copenhagen, Denmark, May 18-22, 2009, Revised Papers Springer This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Symposium on Computer Music Modeling and Retrieval, CMMR 2009, held in Copenhagen, Denmark, in May 2009. The 25 revised full papers presented were specially reviewed and corrected for this proceedings volume. The conference's topics include auditory exploration of data via sonification and audification; real time monitoring of multivariate data; sound in immersive interfaces and teleoperation; perceptual issues in auditory display; sound in generalized computer interfaces; technologies supporting auditory display creation; data handling for auditory display systems; applications of auditory display. Hybrid Artificial Intelligence Systems Third International Workshop, HAIS 2008, Burgos, Spain, September 24-26, 2008, Proceedings Springer The Third International Workshop on Hybrid Artificial Intelligence Systems (HAIS 2008) presented the most recent developments in the dynamically expanding realm of symbolic and sub-symbolic techniques aimed at the construction of highly robust and reliable problem-solving techniques. Hybrid intelligent systems have become increasingly popular given their capabilities to handle a broad spectrum of real-world complex problems which come with inherent imprecision, uncertainty and vagueness, high-dimensionality, and non stationarity. These systems provide us with the opportunity to exploit existing domain knowledge as well as raw data to come up with promising solutions in an effective manner. Being truly multidisciplinary, the series of HAIS workshops offers a unique research forum to present and discuss the latest theoretical advances and real-world applications in this exciting research field. This volume of Lecture Notes on Artificial Intelligence (LNAI) includes accepted papers presented at HAIS 2008 held in University of Burgos, Burgos, Spain, September 2008 The global purpose of HAIS conferences has been to form a broad and interdisciplinary forum for hybrid artificial intelligence systems and associated learning paradigms, which are playing increasingly important roles in a large number of application areas. Since its first edition in Brazil in 2006, HAIS has become an important forum for researchers working on fundamental and theoretical aspects of hybrid artificial intelligence systems based on the use of agents and multiagent systems, bioinformatics and bio-inspired models, fuzzy systems, artificial vision, artificial neural networks, optimization models and alike. User Centric Media First International Conference, UCMedia 2009, Venice, Italy, December 9-11, 2009, Revised Selected Papers Springer Science & Business Media This book constitutes the thoroughly refereed post-conference proceedings of the First International Conference, UCMedia 2009, which was held on 9-11 December 2009 at Hotel Novotel Venezia Mestre Castellana in Venice, Italy. The conference's focus was on forms and production, delivery, access, discovery and consumption of user centric media. After a thorough review process of the papers received, 23 were accepted from open call for the main conference and 20 papers for the workshops. Enhanced Methods in Computer Security, Biometric and Artificial Intelligence Systems Springer Science & Business Media Enhanced Methods in Computer Security, Biometric and Artificial Intelligence Systems contains over 30 contributions from leading European researchers showing the present state and future directions of computer science research. "Methods of Artificial Intelligence and Intelligent Agents" contains 13 contributions analyzing such areas of AI as fuzzy set theory, predicate logic, neural networks, clustering, data mining and others. It also presents applications of AI as possible solutions for problems like firm bankruptcy, soil erosion, flight control and others. "Information Technology Security" covers three important areas of security engineering in information systems: software security, public key infrastructure and the design of new cryptographic protocols and algorithms. "Biometric Systems" comprises 11 contributions dealing with face picture analysis and recognition systems. This chapter focuses on known methods of biometric problem solution as well as the design of new models. HCI in Mobility, Transport, and Automotive Systems. Automated Driving and In-Vehicle Experience Design Second International Conference, MobiTAS 2020, Held as Part of the 22nd HCI International Conference, HCII 2020, Copenhagen, Denmark, July 19-24, 2020, Proceedings, Part I Springer Nature This two-volume set LNCS 12212 and 12213 constitutes the refereed proceedings of the Second International Conference on HCI in Mobility, Transport, and Automotive Systems, MobiTAS 2020, held as part of the 22nd International Conference on Human-Computer Interaction, HCII 2020, in Copenhagen, Denmark, in July, 2020.* A total of 1439 full papers and 238 posters have been carefully reviewed and

accepted for publication in HCII 2020. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. MobiTAS 2020 includes a total of 59 papers and they are organized in the following topical sections: Part I, Automated Driving and In-Vehicle Experience Design: UX topics in automated driving, and designing in-vehicle experiences. Part II, Driving Behavior, Urban and Smart Mobility: studies on driving behavior, and urban and smart mobility. *The conference was held virtually due to the COVID-19 pandemic. Harnessing Public Research for Innovation in the 21st Century An International Assessment of Knowledge Transfer Policies Cambridge University Press A guide to maximizing the impact of work done at public research institutions and universities to boost innovation and growth. How to Super Tune and Modify Holley Carburetors CarTech Inc In How to Super Tune and Modify Holley Carburetors, best selling author Vizard explains the science, the function, and most importantly, the tuning expertise required to get your Holley carburetor to perform its best for your performance application. New Frontiers of the Automobile Industry Exploring Geographies, Technology, and Institutional Challenges Springer Nature Analysing developments in digital technologies and institutional changes, this book provides an overview of the current frenetic state of transformation within the global automobile industry. An ongoing transition brought about by the relocation of marketing, design and production centres to emerging economies, and experimentation with new mobility systems such as electrical, autonomous vehicles, this process poses the question as to how original equipment manufacturers (OEMs) and newcomers can remain competitive and ensure sustainability. With contributions from specialists in the automobile sector, this collection examines the shifts in power and geographical location occurring in the industry, and outlines the key role that public policy has in generating innovation in entrepreneurial states. Offering useful insights into the challenges facing emerging economies in their attempts to grow within the automobile industry, this book will provide valuable reading for those researching internationalization and emerging markets, business strategy and more specifically, the automotive industry. Ethics in Real Estate Springer Science & Business Media ethics." Certainly our industry is bound by the formal constraints of law in national, state, and local jurisdictions. What this volume reminds us, however, is that those laws are only as good as the personal "sea of ethics" in which each of us operates. THE ETHICS OF PROPERTY INVOLVEMENTS Stephen E. Roulac The Roulac Group San Rafael, California and Visiting Professor University of Ulster Ethical considerations are a dominant theme in the management literature. As "Ethics and ethical issues surround our liver, ... ethics has become one of the most rapidly growing areas of management research, with over 800 articles and 1,400 books appearing since 1990" (Schminke, Ambrose, and Miles, 1998). Compared to business and business management, however, the research and writing on real estate in an ethics context is in the very early stages of development. The lack of a developed literature on ethics in real estate is reflected in the response by one highly placed executive to my solicitation for funding to support the publication of this volume: "I didn't know there were any ethics in real estate!" Fortunately, the Summa Corporation and the American Real Estate Society believe in the importance of ethics in real estate, for their cosponsorship has made possible this special monograph on the subject of Ethics in Real Estate. The support of the Summa Corporation and the American Real Estate Society of this pioneering volume is warmly and appreciatively acknowledged. Methods for Multilevel Analysis and Visualisation of Geographical Networks Springer Science & Business Media This leading-edge study focuses on the latest techniques in analysing and representing the complex, multi-layered data now available to geographers studying urban zones and their populations. The volume tracks the successful results of the SPANGEO Project, which was set up in 2005 to standardize, and share, the syncretic, multinational mapping techniques already developed by geographers and computer scientists. SPANGEO sought new and responsive ways of visualising urban geographical and social data that reflected the fine-grained detail of the inputs. It allowed for visual representation of the large and complex networks and flows which are such an integral feature of the dynamism of urban geography. SPANGEO developed through the 'visual analytics loop' in which geographers collaborated with computer scientists by feeding data into the design of visualisations that in turn spawned the urge to incorporate more varied data into the visualisation. This volume covers all the relevant aspects, from conceptual principles to the tools of network analysis and the actual results flowing from their deployment. Detailed case studies set out in this volume include spatial multi-level analyses of flows in airports and sea ports, as well as the fascinating scientific networks in European cities. The volume shows how the primary concern of geography—the interaction of society with physical space—has been revived by the complexities of new cartographical and statistical methodologies, which allow for highly detailed mapping and far more powerful computer analysis of spatial relationships. Internal Combustion Engines Performance, Fuel Economy and Emissions Woodhead Publishing This book presents the papers from the Internal Combustion Engines: Performance, fuel economy and emissions held in London, UK. This popular international conference from the Institution of Mechanical Engineers provides a forum for IC engine experts looking closely at developments for personal transport applications, though many of the drivers of change apply to light and heavy duty, on and off highway, transport and other sectors. These are exciting times to be working in the IC engine field. With the move towards downsizing, advances in FIE and alternative fuels, new engine architectures and the introduction of Euro 6 in 2014, there are plenty of challenges. The aim remains to reduce both CO2 emissions and the dependence on oil-derivate fossil fuels whilst meeting the future, more stringent constraints on gaseous and particulate material emissions as set by EU, North American and Japanese regulations. How will technology developments enhance performance and shape the next generation of designs? The book introduces compression and internal combustion engines' applications, followed by chapters on the challenges faced by alternative fuels and fuel delivery. The remaining chapters explore current improvements in combustion, pollution prevention strategies and data comparisons. presents the latest requirements and challenges for personal transport applications gives an insight into the technical advances and research going on in the IC Engines field provides the latest developments in compression and spark ignition engines for light and heavy-duty applications, automotive and other markets Encyclopedia of Lubricants and Lubrication Springer The importance of lubricants in virtually all fields of the engineering industry is reflected by an increasing scientific research of the basic principles. Energy efficiency and material saving are just two core objectives of the employment of high-tech lubricants. The encyclopedia presents a comprehensive overview of the current state of knowledge in the realm of lubrication. All the aspects of fundamental data, underlying concepts and use cases, as well as theoretical research and last but not least terminology are covered in hundreds of essays and definitions, authored by experts in their respective fields, from industry and academic institutes. Online Brand Communities Using the Social Web for Branding and Marketing Springer This book presents and analyzes the concept of online brand communities, an emerging and exciting topic in marketing and eCommerce. First, it lays out the foundations like the evolution of the Web and the so-called Social Web, its utility for users and businesses, and the evolution of the marketing mind-set to adapt the Social Web. On this basis, the book then presents a detailed analysis of online brand communities, examining the concept of virtual community with a specific focus on virtual brand communities. In this context the book also explores recent trends related to branding and brand management. Next, it proposes a classification system for online brand communities, taking into account questions like the motivating factors for consumers to join, participate and stay in a community. The process of value creation in communities is examined from both business and consumer perspectives. The book draws to a close with a brief presentation of the process broadly accepted for the successful development of online brand communities. The New Frontiers of Fashion Law MDPI Fashion law encompasses a wide variety of issues that concern an article of clothing or a fashion accessory, starting from the moment they are designed and following them through distribution and marketing phases, all the way until they reach the end-user. Contract law, intellectual property, company law, tax law, international trade, and customs law are of fundamental importance in defining this new field of law that is gradually taking shape. This volume focuses on the new frontiers of fashion law, taking into account the various fields that have recently emerged as being of great interest for the entire fashion world: from sustainable fashion to wearable technologies, from new remedies to cultural appropriation to the regulation of model weight, from advertising law on the digital market to the impact of new technologies on product distribution. The purpose is to stimulate discussion on contemporary problems that have the potential to define new boundaries of fashion law, such as the impact of the heightened ethical sensitivity of consumers (who increasingly require effective solutions), that a comparative law perspective renders more interesting. The volume seeks to sketch out the new legal fields in which the fashion industry is getting involved, identifying the new boundaries of fashion law that existing literature has not dealt with in a comprehensive manner. New and Old Routes of Portuguese Emigration Uncertain Futures at the Periphery of Europe Springer This open access book offers a comparative overview on Portuguese emigration in Europe and outside the EU in times of recession. It looks at Portuguese emigrants who, after the crisis of 2008, moved both intra-EU, such as UK, France, Switzerland, Germany and Spain, but also into countries with historical links, such as the USA and Canada, and to Portuguese speaking countries such as Brazil, Angola and Mozambique, as well as the processes of return. In addition to the dynamics of movement, the book provides an in-depth analysis of the heterogeneity of this emigration. It deepens the multifaceted identities concerning social and professional pathways among highly skilled and less skilled emigrants. The labour market continues to be the main regulatory force of Portuguese emigration, which helps to explain the outflow and the processes of settlement and return. Nonetheless, this book demonstrates that non-economic factors have likewise been of great importance in the decision to emigrate. As such this book will be a valuable read to policy makers, students and scholars in migration. A Global History of Ideas in the Language of Law Articulating the Hijāba Cultural Patronage and Political Legitimacy in Al-Andalus, the Amīrid Regency C. 970-1010 AD Handbook of Oriental Studies In Articulating the Hijāba, Mariam Rosser-Owen analyses for the first time the artistic and cultural patronage of the 'Amīrid regents of the last Cordoban Umayyad caliph, Hisham II, a period rarely covered in the historiography of al-Andalus. Automotive Air Conditioning and Climate Control Systems Elsevier Automotive Air-conditioning and Climate Control Systems is a complete text and reference on the theoretical, practical and legislative aspects of vehicle climate control systems for automotive engineering students and service professionals. It provides the reader with a thorough up-to-date knowledge of current A/C systems, refrigerants and the new possible replacement systems like CO2, and includes unrivalled coverage of electronic and electrical control. Filling the gap in the automotive engineering and servicing market for students and those training on the job, this book will help both newcomers and those with more experience of air-conditioning systems maintenance engineering to keep up with the latest developments and legislation. Detailed coverage of European and US vehicle HVAC systems Thorough explanation of current and future systems including CO2 Meets relevant C&G, IMI, and HND vocational and professional qualifications IMI recommended reading material Includes practical cases studies and examples from design and manufacturing companies including Ford, Vauxhall, Toyota, VW, Visteon, Sanden and others, accompanied by over 300 detailed illustrations and photographs Innovation, Sustainability and Management in Motorsports The Case of Formula E Springer Nature "There's probably no better sport than Formula E to present and study the science and practice of innovation within (motor)sport, and this book is a must read for those active within this fascinating area". - Dr. Kristof de Mey, Sports Technology, Innovation & Business Developer at Ghent University, Belgium This open access book provides novel insights on management innovation and sustainability in motorsport. Utilizing the all-electric racing championship called Formula E as case, it draws upon data from multiple sources such as sustainability reports of Formula and its stakeholders, media data, podcasts and newspaper articles, partner publications, and social media outputs. It aims to generate a theoretical model that describes and explains the optimal conditions for innovation when it comes to enhancing a sport organisation's commercial product. Apart from its general transferability to sports research, this model enables further study of a motorsport phenomenon that has been hailed by media as the championship, which affirms money in sustainability. It has also been emphasized by sport researchers as a highly relevant case to study management innovation. This book will be interesting to academics working in sports management, knowledge management, innovation and sustainability. Hans Erik Næss (b. 1978) is an Associate Professor in Sport Management at Kristiania University College, Norway. He holds a PhD in sociology from the University of Oslo and is the author of several peer-reviewed articles and books on motorsports, including A History of Organizational Change: The case of Fédération Internationale de l'Automobile (FIA) 1945-2020. Anne Tjønndal (b. 1988) is an Associate Professor in Sociology of Sport at Nord University, Norway. She holds a PhD in sociology from Nord University and has published articles in high-quality international journals on topics like social innovation, gender and inclusion/exclusion in sport. Tjønndal is the Celia Brackenridge International Research Award winner for 2019. Innovation and Product Management A Holistic and Practical Approach to Uncertainty Reduction Springer Marketplace complexity and dynamics create an environment that increases the uncertainty of innovation activities. In this context systematic management of innovation and product management are increasingly important for company success. This book presents the fundamentals of innovation and product management and introduces the reader to a holistic process model with particular focus on innovation and uncertainty. This integrated consideration of

innovation management and product innovation within an interdisciplinary approach represents a unique characteristic of this book. The book is designed to address the needs of managers who want a practical but well-researched guide to innovation and product management. Graduate and advanced undergraduate students would also find the chapters in this book particularly useful. Peugeot 307 Service and Repair Manual Haynes Publishing This is one in a series of manuals for car or motorcycle owners. Each book provides information on routine maintenance and servicing, with tasks described and photographed in a step-by-step sequence so that even a novice can do the work. Advanced Electric Drive Vehicles CRC Press Electrification is an evolving paradigm shift in the transportation industry toward more efficient, higher performance, safer, smarter, and more reliable vehicles. There is in fact a clear trend to move from internal combustion engines (ICEs) to more integrated electrified powertrains. Providing a detailed overview of this growing area, Advanced Electric Drive Vehicles begins with an introduction to the automotive industry, an explanation of the need for electrification, and a presentation of the fundamentals of conventional vehicles and ICEs. It then proceeds to address the major components of electrified vehicles—i.e., power electronic converters, electric machines, electric motor controllers, and energy storage systems. This comprehensive work: Covers more electric vehicles (MEVs), hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), range-extended electric vehicles (REEVs), and all-electric vehicles (EVs) including battery electric vehicles (BEVs) and fuel cell vehicles (FCVs) Describes the electrification technologies applied to nonpropulsion loads, such as power steering and air-conditioning systems Discusses hybrid battery/ultra-capacitor energy storage systems, as well as 48-V electrification and belt-driven starter generator systems Considers vehicle-to-grid (V2G) interface and electrical infrastructure issues, energy management, and optimization in advanced electric drive vehicles Contains numerous illustrations, practical examples, case studies, and challenging questions and problems throughout to ensure a solid understanding of key concepts and applications Advanced Electric Drive Vehicles makes an ideal textbook for senior-level undergraduate or graduate engineering courses and a user-friendly reference for researchers, engineers, managers, and other professionals interested in transportation electrification. Banded Vegetation Patterning in Arid and Semiarid Environments Ecological Processes and Consequences for Management Springer Science & Business Media Aerial photography has revealed the striking, widespread phenomenon of repeating patterns of vegetation in more arid areas of the world. Two interdependent phases, bands of dense and sparse vegetation, alternate in the landscape. This volume synthesizes half a century's accumulated knowledge of both theoretical and applied landscape function from a variety of these regions. It covers structure, dynamics, and methods of study, as well as disturbances to these landscapes and relevant management issues. Various chapters discuss the role of modeling in answering questions about the origins and complex processes of banded landscapes. Potential Impacts of Climate Change on Tropical Forest Ecosystems Springer Science & Business Media Climate change represents one of the most alarming long-term threats to ecosystems the world over. This new collection of papers provides, for the first time, an overview of the potentially serious impact that climate change may have on tropical forests. The authors, a multi-disciplinary group of leading experts in climatology, forestry, ecology and conservation biology, present a state-of-knowledge snapshot of how tropical forests are likely to react to the changes being wrought on our planet's atmosphere and climate. Tropical forests represent extraordinary harbours for biological diversity, and yet as deforestation and degradation continue apace, they are under greater pressure from human impacts than ever before. Climate change adds yet another threat to these valuable ecosystems, and this volume demonstrates just how significant a problem this may really be. The authors identify certain types of forest, including tropical montane cloud forest that may be particularly vulnerable. They also show the strong likelihood of global warming aggravating problems in already fragmented forest areas. Product Lifecycle Management (Volume 1) 21st Century Paradigm for Product Realisation Springer This third edition updates and adds to the successful second edition and gives the reader a thorough description of PLM, providing them with a full understanding of the theory and the practical skills to implement PLM within their own business environment. This new and expanded edition is fully updated to reflect the many technological and management advances made in PLM since the release of the second edition. Describing the environment in which products are developed, manufactured and supported, before addressing the Five Pillars of PLM: business processes, product data, PLM applications, Organisational Change Management (OCM) and Project Management, this book explains what Product Lifecycle Management is, and why it's needed. The final part of the book addresses the PLM timeline, showing the typical steps and activities of a PLM project or initiative. "Product Lifecycle Management" will broaden the reader's understanding of PLM, nurturing the skills needed to implement PLM successfully and to achieve world-class product performance across the lifecycle. Electric and Hybrid Vehicles Design Fundamentals CRC Press 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. Metrology in Urban Drainage and Stormwater Management: Plug and pray IWA Publishing This book presents the advancements made in applied metrology in the field of Urban Drainage and Storm water Management over the past two decades in scientific research as well as in practical applications. Given the broadness of this subject (measuring principles, uncertainty in data, data validation, data storage and communication, design, maintenance and management of monitoring networks, technical details of sensor technology), the focus is on water quantity and a sound metrological basis. The book offers common ground for academics and practitioners when setting up monitoring projects in urban drainage and storm water management. This will enable an easier exchange of results so as to allow for a faster scientific progress in the field. A second, but equally important goal, is to allow practitioners access to scientific developments and gained experience when it comes to monitoring urban drainage and storm water systems. In-depth description of international case studies covering all aspects discussed in the book are presented, along with self-training exercises and codes available for readers on a companion website. Strategies in Failure Management Scientific Insights, Case Studies and Tools Springer This book offers a comprehensive overview of failure in business, management and consulting. It features contributions by experts from diverse fields, who share unique insights from their real-life experiences. Readers will find perspectives from leadership, project management, change management, innovation management, human resource management, counseling, restructuring, entrepreneurship and sports. Each chapter combines the latest empirical findings with relevant case studies, making for a unique book that offers a fascinating exploration of the largely unexplored area of setbacks, pitfalls, flops and disappointments in the business world. The Toyota Product Development System Integrating People, Process, and Technology CRC Press The ability to bring new and innovative products to market rapidly is the prime critical competence for any successful consumer-driven company. All industries, especially automotive, are slashing product development lead times in the current hyper-competitive marketplace. This book is the first to thoroughly examine and analyze the truly effective product development methodology that has made Toyota the most forward-thinking company in the automotive industry. Winner of the 2007 Shingo Prize For Excellence In Manufacturing Research! In The Toyota Product Development System: Integrating People, Process, and Technology, James Morgan and Jeffrey Liker compare and contrast the world-class product development process of Toyota with that of a U.S. competitor. They use extensive examples from Toyota and the U.S. competitor to demonstrate value stream mapping as an extraordinarily powerful tool for continuous improvement. Through examples and case studies, this book illustrates specific techniques and proven practices for dealing with challenges associated with product development, such as synchronizing multiple disciplines, multiple function workload leveling, compound process variation, effective technology integration, and knowledge management. Readers of this book can focus on optimizing the entire product development value stream rather than focus on a specific tool or technology for local improvements. Georgian Court University Teacher Education Program Inquiry Brief Science and Empire Knowledge and Networks of Science across the British Empire, 1800-1970 Springer Offering one of the first analyses of how networks of science interacted within the British Empire during the past two centuries, this volume shows how the rise of formalized state networks of science in the mid nineteenth-century led to a constant tension between administrators and scientists. The Autocar A Journal Published in the Interests of the Mechanically Propelled Road Carriage