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UNE-EN 50155:2018 PN-EN 50155 B.S. En 50155:1996 Nuclear Science Abstracts CENELEC 50128 and IEC 62279 Standards Electromagnetic Compatibility in Railways Nuclear Power Reactor Instrumentation Systems Handbook Safety Management for Software-based Equipment Certifiable Software Applications 1 DIN EN 50155 (VDE 0115-200), Bahnanwendungen - Fahrzeuge - elektronische Betriebsmittel Lubricants and Lubrication Environmental Requirements for Electromechanical and Electrical Equipment Transportation Electrification Lubricants and Lubrication, 2 Volume Set Masterpieces of Swiss Entrepreneurship Communication Technologies for Vehicles Outils de mise en œuvre industrielle des techniques formelles Formal Methods Industrial Use of Formal Methods The Agile Safety Case Probabilistic Safety Assessment and Management The Law Times Electromagnetic Compatibility EMC for Product Designers Proceedings of the 2013 International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2013)-Volume II Taiwan and China Electrical Railway Transportation Systems Digital Maintenance Management Urban Transport Systems Working Adolescents: Rethinking Education For and On the Job Automating with SIMATIC S7-300 inside TIA Portal Research Methods and Solutions to Current Transport Problems Analysis for Power Quality Monitoring Rail Vehicle Mechatronics Functional Safety and Proof of Compliance Private Sector Participation in Light Rail-Light Metro Transit Initiatives Certifiable Software Applications 2 VLSI Design Theory and Practice OpenVX Programming Guide Computers in Railways XVIII

OpenVX is the computer vision API adopted by many high-performance processor vendors. It is quickly becoming the preferred way to write fast and power-efficient code on embedded systems. OpenVX Programming Guidebook presents definitive information on OpenVX 1.2 and 1.3, the Neural Network, and other extensions as well as the OpenVX Safety Critical standard. This book gives a high-level overview of the OpenVX standard, its design principles, and overall structure. It covers computer vision functions and the graph API, providing examples of usage for the majority of the functions. It is intended both for the first-time user of OpenVX and as a reference for experienced OpenVX developers. Get to grips with the OpenVX standard and gain insight why various options were chosen Start developing efficient OpenVX code instantly Understand design principles and use them to create robust code Develop consumer and industrial products that use computer vision to understand and interact with the real world Environmental Requirements for Electromechanical and Electrical Equipment is the definitive reference containing all of the background guidance, typical ranges, details of recommended test specifications, case studies and regulations covering the environmental requirements on designers and manufacturers of electrical and electromechanical equipment worldwide. The recent introduction of the European EMC directive is just one aspect of the requirements placed upon manufacturers and designers of electrical

equipment. There are numerous national and international standards and specifications that describe the application environment in which equipment must function. Factors that must be taken into account include temperature, solar radiation, humidity, pressure, weather and the effects of water and salt, pollutants and contaminants, mechanical stresses and vibration, ergonomic considerations, electrical safety including EMC, reliability and performance. A broad range of standard tests exist which must be passed by equipment if it is to fulfil the requirements placed upon it. Ray Tricker is the author of a number of books describing the regulatory framework within which the electronics and electrical equipment industry must function, including Quality and Standards in Electronics, also published by Newnes. This latest volume will give the designer or manufacturer a first point of reference when negotiating the minefield that is the global market for their products. Companion to 'Quality and Standards in Electronics' Covers essential tests and regulations for equipment designers and manufacturers Likely to be of interest to major companies worldwide CENELEC EN 50128 and IEC 62279 standards are applicable to the performance of software in the railway sector. The 2011 version of the 50128 standard firms up the techniques and methods to be implemented. This is a guide to its implementation, in order to understand the foundations of the standard and how it impacts on the activities to be undertaken, helping towards better a preparation for the independent evaluation phase, which is mandatory. Originating from papers presented at the 18th International Conference on Railway Engineering Design and Operation, this book provides up-to-date research on the use of advanced systems, promoting their general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. A key emphasis is placed on the use of computer systems in advanced railway engineering. The included works are compiled from a variety of specialists interested in the development of railways, including managers, consultants, railway engineers, designers of advanced train control systems and computer specialists. Topics covered include: Traffic safety, security and monitoring; Train and railways analysis; Operation of rail networks; Advanced train control; Energy-efficient design; Traffic modelling and simulation. A free ebook version of this title will be available through Luminos, University of California Press's Open Access publishing program. Visit www.luminosoa.org to learn more. China's relation to Taiwan has been in constant contention since the founding of the People's Republic of China in October 1949 and the creation of the defeated Kuomintang (KMT) exile regime on the island two months later. The island's autonomous sovereignty has continually been challenged, initially because of the KMT's insistence that it continue to represent not just Taiwan but all of China—and later because Taiwan refused to cede sovereignty to the then-dominant power that had arisen on the other side of the Taiwan Strait. One thing that makes Taiwan so politically difficult and yet so intellectually fascinating is that it is not merely a security problem, but a ganglion of interrelated puzzles. The optimistic hope of the Ma Ying-jeou administration for a new era of peace and cooperation foundered on a landslide victory by the Democratic Progressive Party, which has made clear its intent to distance Taiwan from China's political embrace. The Taiwanese are now waiting with bated breath as the relationship tautens. Why

did détente fail, and what chance does Taiwan have without it? Contributors to this volume focus on three aspects of the evolving quandary: nationalistic identity, social economy, and political strategy. This book offers a new approach to workforce education for youth. It provides meaningful and essential insight into educational systems and practices through cases of vocational and technical education in the People's Republic of China, the Republic of Italy, and the United States of America. The cases describe the history of the multi-faceted vocational systems and provide, in doing so, a springboard for this new work. A conceptual framework comprised of the cognitive, psychological, and social building blocks of individual development explains the multifaceted dimensions of youth that contribute to the policies and practices of traditional adolescent educational models. The framework extends that base by drawing on a multidisciplinary collection of research from both sociology and business to create a new transdisciplinary model for educational practice. It highlights the important but often under-studied relationship between educational institutions and workplaces. The book culminates in an original model, Community Works, which advances both formal and non-formal educational programming and curricula. The model details a practical program for youth, including roles and responsibilities of all stakeholders, and a curricular map, information on lesson planning, varieties of instructional strategies, and tools for assessment and evaluation for professionals. EMC for Product Designers, Fifth Edition, provides all the key information needed to meet the requirements of the EMC compliance standards. More importantly, it shows how to incorporate EMC principles into the product design process, avoiding cost and performance penalties to meet the needs of specific standards that produce a better overall product. As well as covering the 2016 versions of the EU EMC and Radio Directives, this new edition has been thoroughly updated to be in line with the latest best practices in EMC compliance and product design. Coverage now includes extra detail on the main automotive, military, and aerospace standards requirements, as well as a discussion of the issues raised by COTS equipment in military applications. New to this edition are chapters on functional safety, design and installation aspects of switchmode power converters with an introduction to EMC testing of integrated circuits, new details on CISPR 32/35, updates to new versions of the Directives DEF STAN 59-411, DO-160 and MIL STD 461, with more commentary on the implications and requirements of military and aerospace standards, and an added reference to CE Marking for military and problems of COTS. In addition, new sections on IC emissions measurements per IEC 61967 are included, along with new coverage of FFT/time domain receivers, an expanded section on military/aerospace transients, special references to DO160 lightning, added material on MIL STD 461 CE101, RE101, and RS101, the latest practice in PCB layout with a discussion of slots in ground planes, current practice on decoupling, extended coverage of DC-DC converters and motor drives, and a new section on switching inverter (motor drives, renewable energy converters, etc.) installation, and the latest 2016 mandatory regulations of the RTTE and EMC Directives. Presents a complete introduction to EMC for product design from a practicing consultant in the field Includes short case studies that demonstrate how EMC product design is put into practice Provides the latest 2016 mandatory regulations of both the RTTE

Directive and EMC Directive Praise for the previous edition: "Contains something for everyone involved in lubricant technology" — Chemistry & Industry This completely revised third edition incorporates the latest data available and reflects the knowledge of one of the largest companies active in the business. The authors take into account the interdisciplinary character of the field, considering aspects of engineering, materials science, chemistry, health and safety. The result is a volume providing chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, focusing not only on the various products but also on specific application engineering criteria. A classic reference work, completely revised and updated (approximately 35% new material) focusing on sustainability and the latest developments, technologies and processes of this multi billion dollar business Provides chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, looking not only at the various products but also at specific application engineering criteria All chapters are updated in terms of environmental and operational safety. New guidelines, such as REACH, recycling alternatives and biodegradable base oils are introduced Discusses the integration of micro- and nano-tribology and lubrication systems Reflects the knowledge of Fuchs Petrolub SE, one of the largest companies active in the lubrication business 2 Volumes wileyonlinelibrary.com/ref/lubricants This unique and up-to-date work surveys the use of mechatronics in rail vehicles, notably traction, braking, communications, data sharing, and control. The results include improved safety, comfort, and fuel efficiency. Mechatronic systems are a key element in modern rail vehicle design and operation. Starting with an overview of mechatronic theory, the book goes on to cover topics including modeling of mechanical and electrical systems for rail vehicles, open and closed loop control systems, sensors, actuators and microprocessors. Modern simulation techniques and examples are included throughout, and numerical experiments and developed models for railway application are presented and explained. Case studies are used, alongside practical examples, to ensure that the reader can apply mechatronic theory to real world conditions. These case studies include modeling of a hybrid locomotive and simplified models of railway vehicle lateral dynamics for suspension control studies. Rail Vehicle Mechatronics provides current and in-depth content for design engineers, operations managers, systems engineers and technical consultants world-wide, working with freight, passenger, and urban transit railway systems. Transportation Electrification Dive deep into the latest breakthroughs in electrified modes of transport In Transportation Electrification, an accomplished team of researchers and industry experts delivers a unique synthesis of detailed analyses of recent breakthroughs in several modes of electric transportation and a holistic overview of how those advances can or cannot be applied to other modes of transportation. The editors include resources that examine electric aircraft, rolling stock, watercraft, and vehicle transportation types and comparatively determine their stages of development, distinctive and common barriers to advancement, challenges, gaps in technology, and possible solutions to developmental problems. This book offers readers a breadth of foundational knowledge combined with a deep understanding of the issues afflicting each mode of

transportation. It acts as a roadmap and policy framework for transportation companies to guide the electrification of transportation vessels. Readers will benefit from an overview of key standards and regulations in the electrified transportation industry, as well as: A thorough introduction to the various modes of electric transportation, including recent advances in each mode, and the technological and policy challenges posed by them An exploration of different vehicle systems, including recent advanced in hybrid and EV powertrain architectures and advanced energy management strategies Discussions of electrified aircraft, including advanced technologies and architecture optimizations for cargo air vehicle, passenger air vehicles, and heavy lift vertical take-off and landing craft In-depth examinations of rolling stock and watercraft-type vehicles, and special vehicles, including various system architectures and energy storage systems relevant to each Perfect for practicing professionals in the electric transport industry, Transportation Electrification is also a must-read resource for standardization body members, regulators, officials, policy makers, and undergraduate students in electrical and electronics engineering. 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. A collection of papers presented at the PSAM 7 - ESREL '04 conference in June 2004, reflecting a wide variety of disciplines, such as principles and theory of reliability and risk analysis, systems modelling and simulation, consequence assessment, human and organisational factors, structural reliability methods, software reliability and safety, insights and lessons from risk studies and management/decision making. This volume covers both well-established practices and open issues in these fields, identifying areas where maturity has been reached and those where more development is needed. This book aims to help governments and public authorities to establish effective light rail-light metro transit (LRMT) systems, and focuses on use of Public Private Participation (PPP) arrangements. Rather than identify a single approach, we present options and discuss practical issues related to preparing and implementing new LRMT PPP schemes. The approach is focused on providing information that can be used to make informed decisions, adapted to local policy and objectives. The material presented is intended as a practical guide to developing LRMT PPPs in both developed and developing countries. This work endeavors to provide

answers to readers questions regarding how to successfully incorporate private sector participation in LRMT with a lesser emphasis on why LRMT and the private sector may be beneficial. The primary focus of this text is guiding the reader from design through to project implementation. It starts from the premise that underlying transport policy decisions will have already been made and that LRMT has already been identified as the appropriate transport solution. We have included some limited discussion of policy and technical issues where these directly impact the LRMT PPP approach. The approach is presented in nine sections, and in preparing it the author drew on current international LRMT PPP experience, through a series of interviews and case studies. The sections covered are: 1. Urban Transport and Light Rail/Light Metro Transit (LRMT) 2. Selected Technical Aspects 3. Incorporating Private Sector Participation in LRMT Initiatives 4. Understanding and Allocating Risk 5. Specifications, Oversight and Performance Management 6. Funding and finance 7. Developing a PPP Agreement 8. Procurement 9. Conclusions and Recommendations Les techniques formelles réalisent des modèles de spécifications et/ou de conception et servent principalement à l'analyse statique de code, à la démonstration du respect de propriété et à la bonne gestion des calculs sur les flottants. Différents domaines tels les systèmes de transport, la production d'énergie ou la santé prennent en compte l'implémentation de ces méthodes pour satisfaire les exigences de sécurité élevées des systèmes critiques. Leur mise en œuvre dans le cadre d'une application industrielle (application de grande taille, contrainte de coût et de délais, etc.) ne peut se faire que par l'emploi d'outils suffisamment matures et performants. Cet ouvrage collectif présente des exemples concrets d'utilisation des techniques formelles comme la méthode B, SCADE, MaTeLo, ControlBuild, SparkAda et POLYSPACE et des techniques de vérification associées. Il en identifie aussi les avantages et les difficultés. The book is dedicated as an auxiliary literature for academic staff of universities, research institutes, as well as for students of transport teaching. The aim of the conference was to present the achievements of national and foreign research and scientific centers dealing with the issues of rail, road, air and sea transport in technical and technological aspects, as well as organization and integration of the environment conducting research and education in the discipline of civil engineering and transport. International Scientific Conference Transport of the 21st Century was held in Ryn, Poland, in the 9th–12th of June 2019. The research areas of the conference were as follows: • transport infrastructure and communication engineering, • construction and operation of means of transport, • logistics engineering and transport technology, • organization and planning of transport, including public transport, • traffic control systems in transport, • transport telematics and intelligent transportation systems, • smart city and electromobility, • safety engineering and ecology in transport, • automation of means of transport. It also used by specialists from central and local government authorities in the area of deepening knowledge of modern technologies and solutions used for planning, managing and operating transport. At present the literature gives students and researchers of thevery general books on the formal technics. The purpose of this bookis to present in a single book, a return of experience on the usedof the “formal technics” (such proof andmodel-checking) on industrial

examples for the transportationdomain. This book is based on the experience of people which arecompletely involved in the realization and the evaluation of safetycritical system software based. The implication of the industrialists allows to raise theproblems of confidentiality which could appear and so allow tosupply new useful information (photos, plan of architecture, realexample). Praise for the previous edition: "Contains something for everyone involved in lubricant technology" — Chemistry & Industry This completely revised third edition incorporates the latest data available and reflects the knowledge of one of the largest companies active in the business. The authors take into account the interdisciplinary character of the field, considering aspects of engineering, materials science, chemistry, health and safety. The result is a volume providing chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, focusing not only on the various products but also on specific application engineering criteria. A classic reference work, completely revised and updated (approximately 35% new material) focusing on sustainability and the latest developments, technologies and processes of this multi billion dollar business Provides chemists and engineers with a clear interdisciplinary introduction and guide to all major lubricant applications, looking not only at the various products but also at specific application engineering criteria All chapters are updated in terms of environmental and operational safety. New guidelines, such as REACH, recycling alternatives and biodegradable base oils are introduced Discusses the integration of micro- and nano-tribology and lubrication systems Reflects the knowledge of Fuchs Petrolub SE, one of the largest companies active in the lubrication business 2 Volumes wileyonlinelibrary.com/ref/lubricants Although formal analysis programming techniques may be quiteold, the introduction of formal methods only dates from the 1980s.These techniques enable us to analyze the behavior of a softwareapplication, described in a programming language. It took until theend of the 1990s before formal methods or the B method could beimplemented in industrial applications or be usable in anindustrial setting. Current literature only gives students and researchers very generaloverviews of formal methods. The purpose of this book is to presentfeedback from experience on the use of "formal methods"(such as proof and model-checking) in industrial examples withinthe transportation domain. This book is based on the experience of people who are currentlyinvolved in the creation and evaluation of safety critical systemsoftware. The involvement of people from within the industry allowsus to avoid the usual problems of confidentiality which could ariseand thus enables us to supply new useful information (photos,architecture plans, real examples, etc.). Topics covered by the chapters of this book include SAET-METEOR,the B method and B tools, model-based design using Simulink, theSimulink design verifier proof tool, the implementation andapplications of SCADE (Safety Critical Application DevelopmentEnvironment), GATeL: A V&V Platform for SCADE models andControlBuild. Contents 1. From Classic Languages to Formal Methods, Jean-LouisBoulanger. 2. Formal Method in the Railway Sector & the First ComplexApplication: SAET-METEOR, Jean-Louis Boulanger. 3. The B Method and B Tools, Jean-Louis Boulanger. 4. Model-Based Design Using Simulink - Modeling, CodeGeneration, Verification, and Validation, Mirko Conrad and

PieterJ. Mosterman. 5. Proving Global Properties with the Aid of the SIMULINK DESIGNVERIFIER Proof Tool, Véronique Delebarre andJean-Frédéric Etienne. 6. SCADE: Implementation and Applications, Jean-Louis Camus. 7. GATeL: A V&V Platform for SCADE Models, Bruno Marre,Benjamin Bianc, Patricia Mouy and Christophe Junke. 8. ControlBuild, a Development Framework & for ControlEngineering, Franck Corbier. 9. Conclusion, Jean-Louis Boulanger. Allows the reader to deepen their understanding of various technologies for both fixed power supply installations of railway systems and for railway rolling stock This book explores the electric railway systems that play a crucial role in the mitigation of congestion and pollution caused by road traffic. It is divided into two parts: the first covering fixed power supply systems, and the second concerning the systems for railway rolling stock. In particular, after a historical introduction to the framework of technological solutions in current use, the authors investigate electrification systems for the power supply of rail vehicles, trams, and subways. Electrical Railway Transportation Systems explores the direct current systems used throughout the world for urban and suburban transport, which are also used in various countries for regional transport. It provides a study of alternating current systems, whether for power supply frequency or for special railway frequency, that are used around the world for the electrification of railway lines, long-distance lines, and high-speed lines. In addition, this resource: Analyzes multiple railway systems from a theoretical and realizable vantage point, with particular regard to functionality, electromagnetic compatibility, and interferences with other electrical systems Studies electric traction railway vehicles, presenting various types of drives and auxiliary devices currently in circulation Discusses solutions employed to ensure interoperability of vehicles that run along lines powered by different systems (e.g., DC and AC, at different frequencies) Electrical Railway Transportation Systems is an ideal text for graduate students studying the subject as well as for industry professionals working in the field. Proceedings of the 2013 International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2013) collects the latest research in this field, including a wealth of state-of-the-art research theories and applications in intelligent computing, information processing, communication technology, automatic control, etc. The objective of the proceedings is to provide a major interdisciplinary forum for researchers, engineers, academics and industrial professionals to present the most innovative research on and developments in the field of rail transportation electrical and information technologies. Contributing authors from academia, industry and the government also offer inside views of new, interdisciplinary solutions. Limin Jia is a professor at Beijing Jiaotong University and Chief Scientist at the State Key Lab of Rail Traffic Control and Safety. This open access book focuses on Switzerland-based medium-sized companies with a longstanding export tradition and a proven dominance in global niche markets. Based upon in-depth documentation and analysis of 36 Swiss companies over their entire history, an expert team of authors presents several parallels in the pathways and success factors which allowed these firms to become dominant and operate from a high-cost location such as Switzerland. The book enhances these insights by providing detailed company profiles documenting the company history, development, and how their

relevant global niche positions were reached. Readers will benefit from these profiles as they compile a diverse selection of industries, mainly active within the B2B sector, with mostly mature companies (60 years to older than 100 years since founding) and different types of ownership structures including family firms. 'Masterpieces of Swiss Entrepreneurship' brings unique learning opportunities to owners and leaders of SMEs in Switzerland and elsewhere. Findings are based on detailed bottom-up research of 36 companies -- without any preconceived notions. The book is both conceptual and practical. It fosters understanding for different choices in development pathways and management practices. Matti Alahuhta, Chairman DevCo Partners, ex-CEO Kone, Board member of several global listed companies, Helsinki, Finland Start-up entrepreneurs need proven models from industry which demonstrate the various paths to success. "Masterpieces of Swiss Entrepreneurship" provides deep insights highlighting these models and the important trade-offs entrepreneurial teams must consider when choosing the path of high growth or of maximum control, as they are often mutually exclusive. Gina Domanig, Managing Partner, Emerald Technology Ventures, Zurich This book constitutes the proceedings of the 10th International Workshop on Communication Technologies for Vehicles, Nets4Cars/Nets4Trains/Nets4Aircraft 2016, held in San Sebastián, Spain, in June 2016. The 13 papers presented together with 2 keynote papers, 2 invited papers, and 1 demo paper in this volume were carefully reviewed and selected from 17 initial submissions. The contributions are organized in topical sections named: road, rail, and air. This book aims to facilitate and improve development work related to all documents and information required by functional safety standards. Proof of Compliance (PoC) is important for the assessor and certification bodies when called up to confirm that the manufacturer has developed a software system according to the required safety standards. While PoC documents add functionality to the product neither for the developer nor for the customer, they do add confidence and trust to the product and ease certification, and as such are important for the product's value. In spite of this added value, the documentation needed for PoC is often developed late in the project and in a haphazard manner. This book aims at developers, assessors, certification bodies, and purchasers of safety instrumented systems and informs the reader about the most important PoC documents. A typical PoC documentation encompasses 50 to 200 documents, several of which are named in the safety standards (e.g., 82 documents in IEC 61508:2010 series, 101 documents in EN 5012X series and 106 work products in ISO 26262:2018 series). These documents also include further references, typically one to twenty of them, and the total number of pages developed by the manufacturer varies between 2000 and 10000 pages. The book provides guidance and examples what to include in the relevant plans and documents. SIMATIC S7-300 has been specially designed for innovative system solutions in the manufacturing industry, and with a diverse range of controllers it offers the optimal solution for applications in centralized and distributed configurations. Alongside standard automation safety technology and motion control can also be integrated. The TIA Portal user interface is tuned to intuitive operation and encompasses all the requirements of automation within its range of functions: from configuring the controller, through programming in the different languages, all the way

to the program test and simulation. For beginners engineering is easy to learn and for professionals it is fast and efficient. This book describes the configuration of devices and network for the S7-300 components inside the new engineering framework TIA Portal. With STEP 7 Professional V12, configuring and programming of all SIMATIC controllers will be possible in a simple and efficient way; in addition to various technology functions the block library also contains a PID control. As reader of the book you learn how a control program is formulated and tested with the programming languages LAD, FBD, STL and SCL. Descriptions of configuring the distributed I/O with PROFIBUS DP and PROFINET IO using SIMATIC S7-300 and exchanging data via Industrial Ethernet round out the book. Explains and resolves the electromagnetic compatibility challenges faced by engineers in transportation and communications This book is a mathematically-rich extension of courses required to maintain the Federal Communications Commission (FCC), the Canadian Standards Association (CSA), and the European Union certifications. The text provides an in-depth study of the electromagnetic compatibility (EMC) issues related to specific topics in transportation and communications, including Light Rail Transit, shadow effects, and radio dead spots, through the analysis of real-world case studies in the United States and Europe. The author provides Cartesian, cylindrical, and spherical solutions that can be applied to Maxwell's and Wave Equations. The book covers topics such as SCADA Systems, shielding, and complexities of radio frequencies and their effect on communication houses. The author also provides information for alternative industries to apply the solutions from the case studies and background content to their own professions. Presents a series of over twenty real-world case studies related to EMC in transportation and communications Covers power line radiation, shadow effects on subway cars, train control systems, and edge distortions Includes the OATS testing method and Department of Transportation (DOT) test Provides access to a companion website housing power point slides and additional appendices Electromagnetic Compatibility: Analysis and Case Studies in Transportation is a reference for practicing engineers involved in transportation and communications, as well as post-graduate engineering students studying transportation and communications in engineering. This book contains a collection of latest research developments on the urban transportation systems. It describes rail transit systems, subways, bus rapid transit (BRT) systems, taxicabs, automobiles, etc. This book also studies the technical parameters and provides a comprehensive overview of the significant characteristics for urban transportation systems, including energy management systems, wireless communication systems, operations and maintenance systems, transport serviceability, environmental problems and solutions, simulation, modelling, analysis, design, safety and risk, standards, traffic congestion, ride quality, air quality, noise and vibration, financial and economic aspects, pricing strategies, etc. This professional book as a credible source can be very applicable and useful for all professors, researchers, students, experienced technical professionals, practitioners and others interested in urban transportation systems. Certifiable Software Applications 1: Main Processes is dedicated to the establishment of quality assurance and safety assurance. It establishes the context for achieving a certifiable software application.

In it, the author covers recent developments such as the module, component and product line approach. Applicable standards are presented and security principles are described and discussed. Finally, the requirements for mastering quality and configuration are explained. In this book the reader will find the fundamental practices from the field and an introduction to the concept of software application. Presents the fundamental practices from the field Emphasizes the development of quality assurance and safety assurance Introduces the concept of software application Covers recent developments such as module, component, and the product line approach This book provides a thorough overview of the integration of cyber-physical systems and maintenance management models. It begins by explaining the fundamental concepts behind maintenance digital transformation. It discusses key decision areas in digital maintenance management, particularly focusing on strategic dimensions of maintenance, digital twin definition and strategy, and industry 4.0 digital tools frameworks to support emerging maintenance processes. Furthermore, the monograph dedicates time to the integration of digital maintenance with the entire digital factory. By presenting the possibilities for asset utilization improvement and for asset value enhancements, Digital Maintenance Management provides engineers and practitioners responsible for the management of complex industrial assets a complete guide to piloting the maintenance digital transformation. We are immersed in the so-called digital energy network, continuously introducing new technological advances for a better way of life. Numerous emerging words are in the spotlight, namely: Internet of Things (IoT), Big Data, Smart Cities, Smart Grid, Industry 4.0, etc. To achieve this formidable goal, systems should work more efficiently, and this fact inevitably leads to power quality (PQ) assurance. Apart from its economic losses, a bad PQ implies serious risks for machines, and consequently for people. Many researchers are endeavoring to develop new analysis techniques, instruments, measurement methods, and new indices and norms that match and fulfil the requirements regarding the current operation of the electrical network. This book offers a compilation of the some recent advances in this field. The chapters range from computing issues to technological implementations, going through event detection strategies and new indices and measurement methods that contribute significantly to the advancement of PQ analysis. Experiments have been developed within the frames of research units and projects, and deal with real data from industry and public buildings. Human beings have an unavoidable commitment with sustainability, which implies adapting PQ monitoring techniques to our dynamic world, defining a digital and smart concept of quality for electricity. The safety case (SC) is one of the railway industry's most important deliverables for creating confidence in their systems. This is the first book on how to write an SC, based on the standard EN 50129:2003. Experience has shown that preparing and understanding an SC is difficult and time consuming, and as such the book provides insights that enhance the training for writing an SC. The book discusses both "regular" safety cases and agile safety cases, which avoid too much documentation, improve communication between the stakeholders, allow quicker approval of the system, and which are important in the light of rapidly changing technology. In addition, it discusses the necessity of frequently updating software due to market requirements, changes in

requirements and increased cyber-security threats. After a general introduction to SCs and agile thinking in chapter 1, chapter 2 describes the majority of the roles that are relevant when developing railway-signaling systems. Next, chapter 3 provides information related to the assessment of signaling systems, to certifications based on IEC 61508 and to the authorization of signaling systems. Chapter 4 then explains how an agile safety plan satisfying the requirements given in EN 50126-1:1999 can be developed, while chapter 5 provides a brief introduction to safety case patterns and notations. Lastly, chapter 6 combines all this and describes how an (agile) SC can be developed and what it should include. To ensure that infrastructure managers, suppliers, consultants and others can take full advantage of the agile mind-set, the book includes concrete examples and presents relevant agile practices. Although the scope of the book is limited to signaling systems, the basic foundations for (agile) SCs are clearly described so that they can also be applied in other cases. A review of the principles of the safety of software-basedequipment, this book begins by presenting the definition principlesof safety objectives. It then moves on to show how it is possibleto define a safety architecture (including redundancy,diversification, error-detection techniques) on the basis of safetyobjectives and how to identify objectives related to softwareprograms. From software objectives, the authors present thedifferent safety techniques (fault detection, redundancy andquality control). "Certifiable system" aspects aretaken into account throughout the book. Contents 1. Safety Management. 2. From System to Software. 3. Certifiable Systems. 4. Risk and Safety Levels. 5. Principles of Hardware Safety. 6. Principles of Software Safety. 7. Certification. About the Authors Jean-Louis Boulanger is currently an Independent Safety Assessor(ISA) in the railway domain focusing on software elements. He is aspecialist in the software engineering domain (requirementengineering, semi-formal and formal method, proof andmodel-checking). He also works as an expert for the French notifiedbody CERTIFER in the field of certification of safety criticalrailway applications based on software (ERTMS, SCADA, automaticsubway, etc.). His research interests include requirements,software verification and validation, traceability and RAMS with aspecial focus on SAFETY. Certifiable Software Applications 2: Support Processes explains the process to achieve a certifiable application. This concerns several major topics, skill management, data preparation, requirement management, software verification, and software validation. In addition, analysis of the impact of the use of COTS and pre-existing software on certifiable software is presented. Finally, the last support process concerns the management of commercial tools, the creation of a specific tools, and therefore the qualification of tools, which is based on their impact on the final software. Explains configuration management, management of anomalies, skills management, and quality control Discusses the major topics of skill management, data preparation, requirement management, software verification, and software validation Presents tactics for the management of commercial tools and the creation of a specific tool which is based on their impact on the final software

Eventually, you will categorically discover a supplementary experience and finishing by spending more cash. nevertheless when? get you believe that you

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