

Tcup57

Mathias UsLAR, Michael Specht, Sebastian Rohjans, Jörn Trefke, José M. González

The Common Information Model CIM Mathias Uslar, Michael Specht, Sebastian Rohjans, Jörn Trefke, José M. González, 2012-02-01 Within the Smart Grid, the combination of automation equipment, communication technology and IT is crucial. Interoperability of devices and systems can be seen as the key enabler of smart grids. Therefore, international initiatives have been started in order to identify interoperability core standards for Smart Grids. IEC 62357, the so called Seamless Integration Architecture, is one of these very core standards, which has been identified by recent Smart Grid initiatives and roadmaps to be essential for building and managing intelligent power systems. The Seamless Integration Architecture provides an overview of the interoperability and relations between further standards from IEC TC 57 like the IEC 61970/61968: Common Information Model - CIM. CIM has proven to be a mature standard for interoperability and engineering; consequently, it is a cornerstone of the IEC Smart Grid Standardization Roadmap. This book provides an overview on how the CIM developed, in which international projects and roadmaps is has already been covered and describes the basic use cases for CIM. This book has been written for both Power Engineers trying to get to know the EMS and business IT part of Smart Grid and for Computer Scientist finding out where ICT technology is applied in EMS and DMS Systems. The book is divided into two parts dealing with the theoretical foundations and a practical part describing tools and use cases for CIM.

Hypersonic Research Engine Project. Phase 2: Aerothermodynamic Integration Model (AIM) Data Reduction Computer Program, Data Item No. 54.16, 1975

The Eclipse of 'Elegant Economy' Martin Cohen, 2016-03-23 Elizabeth Gaskell might have been amused to learn that the Victorian 'elegant economy' she mocked so poignantly in Cranford reached a new apogee in the mid-twentieth century and endured the invasion of its precise antithesis, 'conspicuous consumption'. For Britons of all classes the years of austerity during and after the Second World War were years of disorientation and fears of resurgence of the worst of the interwar decades. They had never had more money in their pockets or less material things on which to spend it. Many took refuge in the 'elegant economy', its creator dubbed 'a sort of sour-grapeism, which made us very peaceful and satisfied'. Constrained by rationing, manufacturing and import controls personal finance could only be disbursed on non-material things - sometimes wisely, sometimes pragmatically and sometimes by throwing all caution to the wind. Here for the first time is the history of these diverse reactions explored through Britain's metamorphosis from austerity to affluence, with consumerism seen through fresh eyes. Today political commentators constantly warn of the encroachment of austerity. This book is a timely reminder of the years of real austerity in Britain: when regardless of financial status everyone suffered its tribulations: when a 'sub-prime' mortgage was unimaginable: when abuse of expense claims by public figures was unthinkable: and when no one dared utter a word critical of their bank or its manager.

Industrial Communication Systems Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The Industrial Electronics Handbook, Second Edition, Industrial Communications Systems combines traditional and newer, more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and

implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Modern communication systems in factories use many different—and increasingly sophisticated—systems to send and receive information. Industrial Communication Systems spans the full gamut of concepts that engineers require to maintain a well-designed, reliable communications system that can ensure successful operation of any production process. Delving into the subject, this volume covers: Technical principles Application-specific areas Technologies Internet programming Outlook, including trends and expected challenges Other volumes in the set: Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems

IEC 61850 Demystified Herbert Falk, 2018-12-31 This comprehensive overview of 61850 standard/protocol focuses on implementation, taking the reader through the development and concepts of IEC 61850. This includes the initial work by General Motors (Manufacturing Automation Protocol), EPRI (UCA 1.0 and UCA 2.0), IEEE (TR 1550), and IEC 61850. The standard is a significant piece of many IIoT (industrial internet of things) strategies for substation communication. The book discusses and documents the basic research and theory of guaranteed multicast done for IEC 61850 GOOSE as well as the shift from variable technology to object oriented technology. The layering principles, as well as the structure, of IEC 61850 are discussed in detail as well as the actual communication profiles that have been created to support substation/distribution automation, distributed energy resources, and synchrophasors. Real applications will be discussed as well as the future direction of the standard. The author is a technical co-editor of IEC 61850 standard and a leader in US implementations, having been involved with the technology from its inception.

Handbook of Finite Fields Gary L. Mullen, Daniel Panario, 2013-06-17 Poised to become the leading reference in the field, the Handbook of Finite Fields is exclusively devoted to the theory and applications of finite fields. More than 80 international contributors compile state-of-the-art research in this definitive handbook. Edited by two renowned researchers, the book uses a uniform style and format throughout and

Smart Grid Handbook, 3 Volume Set, 2016-08-01 Comprehensive, cross-disciplinary coverage of Smart Grid issues from global expert researchers and practitioners. This definitive reference meets the need for a large scale, high quality work reference in Smart Grid engineering which is pivotal in the development of a low-carbon energy infrastructure. Including a total of 83 articles across 3 volumes The Smart Grid Handbook is organized in to 6 sections: Vision and Drivers, Transmission, Distribution, Smart Meters and Customers, Information and

Communications Technology, and Socio-Economic Issues. Key features: Written by a team representing smart grid R&D, technology deployment, standards, industry practice, and socio-economic aspects. Vision and Drivers covers the vision, definitions, evolution, and global development of the smart grid as well as new technologies and standards. The Transmission section discusses industry practice, operational experience, standards, cyber security, and grid codes. The Distribution section introduces distribution systems and the system configurations in different countries and different load areas served by the grid. The Smart Meters and Customers section assesses how smart meters enable the customers to interact with the power grid. Socio-economic issues and information and communications technology requirements are covered in dedicated articles. The Smart Grid Handbook will meet the need for a high quality reference work to support advanced study and research in the field of electrical power generation, transmission and distribution. It will be an essential reference for regulators and government officials, testing laboratories and certification organizations, and engineers and researchers in Smart Grid-related industries.

Standardization in Smart Grids Mathias Uslar, Michael Specht, Christian Dänikas, Jörn Trefke, Sebastian Rohjans, José M. González, Christine Rosinger, Robert Bleiker, 2012-12-14 The first successful finished Smart Grid Prototype Projects deliver new requirements and best practices to meet them. These solutions will be the base for the upcoming norms and standards in the near future. This domain is not only part of one Standard developing Organization (SDO), but also of many different organizations like ITU, ISO, IEC and additionally for the electro mobility part the SAE. This results in many standards which are based on different aspects. Furthermore the European mirror organizations (ETSI, CEN, CENELEC) as well as the German mirror groups of these groups are involved, which are delivering further rules and adaption for the local market. Because of this diversity of organizations involved, it is difficult for the local companies (which includes energy utility, manufacturer and software producer specialized on integration) to identify the relevant trends, standardization groups and technologies necessary. With the EU Mandate M490 to CEN/CNELEC and TESI and the Commission being a driving force (e.g. <ftp://ftp.cenelec.eu/CENELEC/Smartgrid/SmartGridFinalReport.pdf> and <http://www.cenelec.eu/aboutcenelec/whatwedo/technologysectors/smartgrids.html>) standardization becomes more and more important – but it's complex and not easy to be understood. Here at OFFIS, we provide training but we are always asked for textbooks on our trainings. Based on our modules for the SG trainings, we would estimate the following chapters to be relevant to SG stakeholders in standardization (roughly 16-20 pages per chapter).

Semantic Service Integration for Smart Grids S. Rohjans, IOS Press, 2012-12-13 The scope of the research presented includes semantic-based integration of data services in smart grids achieved through following the proposed (S2)In-approach developed corresponding to design science guidelines. This approach identifies standards and specifications, which are integrated in order to build the basis for the (S2)In-architecture. A process model is introduced in the beginning, which serves as framework for developing the target architecture. The first step of the process stipulates to define requirements for smart grid ICT-architectures being derived from established

studies and divided into two classes: architecture and non-functional requirements (NFR). Based on the architecture requirements, the following specifications have been basically selected: The IEC CIM representing a domain-specific data model, the OPC UA being a communication standard with special respects to information modeling, and WSMO as an approach to realize the concept of Semantic Web Services. The next step specifies to develop both, a semantic information model (integration of CIM and OPC UA) and semantic services (integration of CIM and WSMO). These two components are then combined to obtain the target architecture, which allows precise descriptions of services as well as their combination and semi-automatic execution. Finally, the NFR are considered in order to evaluate the architecture based on simulated, representative use cases.

The Industrial Electronics Handbook - Five Volume Set Bogdan M. Wilamowski, J. David Irwin, 2011-03-04 Industrial electronics systems govern so many different functions that vary in complexity-from the operation of relatively simple applications, such as electric motors, to that of more complicated machines and systems, including robots and entire fabrication processes. The Industrial Electronics Handbook, Second Edition combines traditional and new

Electric Power Substations Engineering John D. McDonald, 2003-06-27 Electric Power Substations Engineering provides a comprehensive overview of substations, from their fundamental concepts to their design, automation, operation, and physical and cyber security. Each of its 18 sections is authored by leading members of IEEE's Substations committee and written as a self-contained tutorial, complete with industry stan

Efoc/lan 86 Danae Fasano, Chris Kennelly, Paul Polishuk,

Transportation and Power Grid in Smart Cities Hussein T. Mouftah, Melike Erol-Kantarci, Mubashir Husain Rehmani, 2018-12-28 With the increasing worldwide trend in population migration into urban centers, we are beginning to see the emergence of the kinds of mega-cities which were once the stuff of science fiction. It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real-time monitoring and response services for public utilities and transportation systems. Part speculative look into the future of the world's urban centers, part technical blueprint, this visionary book helps lay the groundwork for the communication networks and services on which tomorrow's "smart cities" will run. Written by a uniquely well-qualified author team, this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality.

Smart Grids Stuart Borlase, 2017-11-22 The latest edition features a new chapter on implementation and operation of an integrated smart grid with updates to multiple chapters throughout the text. New sections on Internet of things, and how they relate to smart grids and smart cities, have also been added to the book. It describes the impetus for change in the electric utility industry and discusses the business drivers, benefits, and market outlook of the smart grid initiative. The book identifies the technical framework of enabling technologies and smart solutions and describes the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort. With chapters written by

leading experts in the field, the text explains how to plan, integrate, implement, and operate a smart grid.

Distributed Power Resources Ruisheng Li, 2019-06-14 *Distributed Power Resources: Operation and Control of Connecting to the Grid* presents research and development, lists relevant technologies, and draws on experience to tackle practical problems in the operation and control of distributed power. Key problems are identified and interrogated, as are requirements and application methods, associated power conversion tactics, operational control protections, and maintenance technologies. The title gives experimental verification of the technologies involved in several demonstration projects, including an active multi-resource distribution grid, and a high-density distributed resources connecting ac/dc hybrid power grid. The book considers the development of distributed photovoltaic power, wind power, and electric vehicle energy storage. It discusses the characteristics of distributed resources and the key requirements and core technologies for plug-and-play applications. Considers the state-of-the-art in distributed power resources and their connection to the grid Leverages practical experience and experimental data to solve problems of operation and control Provides analysis of plug-and-play applications for distributed power supplies Presents relevant technology and practical experience to industry Explores potential new technologies in distributed power resources

Smart Microgrids Hassan Farhangi, 2016-10-14 The utility sector's transition to renewable energy and the smart grid has already begun. The first step towards smart grid is microgrid, which is a smaller electricity grid with access to all the essential assets of a larger grid. This book provides a glimpse into an actual microgrid project. It supplies a system-level approach to the design of smart Microgrids, covering the entire design process—from roadmap to realization. Detailing lessons learned and pitfalls to avoid in Microgrid technology, the book provides an interdisciplinary approach to design and problem solving for smart microgrids.

Smart Grids and Their Communication Systems Ersan Kabalci, Yasin Kabalci, 2018-09-01 The book presents a broad overview of emerging smart grid technologies and communication systems, offering a helpful guide for future research in the field of electrical engineering and communication engineering. It explores recent advances in several computing technologies and their performance evaluation, and addresses a wide range of topics, such as the essentials of smart grids for fifth generation (5G) communication systems. It also elaborates the role of emerging communication systems such as 5G, internet of things (IoT), IEEE 802.15.4 and cognitive radio networks in smart grids. The book includes detailed surveys and case studies on current trends in smart grid systems and communications for smart metering and monitoring, smart grid energy storage systems, modulations and waveforms for 5G networks. As such, it will be of interest to practitioners and researchers in the field of smart grid and communication infrastructures alike.

Securing Cyberspace United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs. Subcommittee on Federal Financial Management, Government Information, and International Security, 2006

On the Move to Meaningful Internet Systems: OTM 2008 Workshops Zahir Tari, 2008-11-19 This volume constitutes the refereed proceedings of 13 international workshops held as part of OTM 2008 in Monterrey, Mexico, in November

2008. The 106 revised full papers presented were carefully reviewed and selected from a total of 171 submissions to the workshops. The volume starts with 19 additional revised poster papers of the OTM 2008 main conferences CoopIS and ODBASE. Topics of the workshop papers are ambient data integration (ADI 2008), agents and web services merging in distributed environment (AWeSoMe 2008), community-based evolution of knowledge-intensive systems (COMBEK 2008), enterprise integration, interoperability and networking (EI2N 2008), system/software architectures (IWSSA 2008), mobile and networking technologies for social applications (MONET 2008), ontology content and evaluation in enterprise & quantitative semantic methods for the internet (OnToContent and QSI 2008), object-role modeling (ORM 2008), pervasive systems (PerSys 2008), reliability in decentralized distributed systems (RDDS 2008), semantic extensions to middleware enabling large scale knowledge (SEMELS 2008), and semantic Web and Web semantics (SWWS 2008).

IEC 61850: Digitizing the Electric Power Grid Alexander Apostolov, 2022-10-31 This book covers the digitalization of the grid from a practical point of view and helps you understand the principles used in the development of the standard and its multiple benefits of how they can help in all aspects of the specialists' everyday work. The book demonstrates that the IEC 61850 standard is a new communications protocol and a completely new engineering environment using named data objects and attributes that support the interoperability between multifunctional devices from different manufacturers integrated in protection automation and control systems. It highlights the contribution of the standard in introducing high speed peer to peer communications that support different substation and wide area protection and automation related applications. You will be introduced to the different parts of the standard and their evolution from a substation centered approach towards its expansion targeting the coverage of the different domains of the smart grid. It approaches the subject from a practical point utilizing an expert's years of experience. It provides numerous examples of the application of the standard for protection, automation, and control in smart grid. This is an excellent resource for utility specialists and researchers developing protection, automation and control devices in systems based on the standard; and by consultants helping with the implementation of the standard in different projects.

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