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The essential guide that combines power system fundamentals with the practical aspects of equipment design and operation in modern power systems Written by an experienced power engineer, AC Circuits and Power Systems in Practice offers a comprehensive guide that reviews power system fundamentals and network theorems while exploring the practical aspects of equipment design and application. The author covers a wide-range of topics

including basic circuit theorems, phasor diagrams, per-unit quantities and symmetrical component theory, as well as active and reactive power and their effects on network stability, voltage support and voltage collapse. Magnetic circuits, reactor and transformer design are analyzed, as is the operation of step voltage regulators. In addition, detailed introductions are provided to earthing systems in LV and MV networks, the adverse effects of harmonics on power equipment and power system protection. Finally, European and American engineering standards are presented where appropriate throughout the text, to familiarize the reader with their use and application. This book is written as a practical power engineering text for engineering students and recent graduates. It contains more than 400 illustrations and is designed to provide the reader with a broad introduction to the subject and to facilitate further study. Many of the examples included come from industry and are not normally covered in undergraduate syllabi. They are provided to assist in bridging the gap between tertiary study and industrial practice, and to assist the professional development of recent graduates. The material presented is easy to follow and includes both mathematical and visual representations using phasor diagrams. Problems included at the end of most chapters are designed to walk the reader through practical applications of the associated theory. Compiled by an expert in the field, the book provides an engineer

with data they can trust. Spanning gases, liquids, and solids, all critical properties (including viscosity, thermal conductivity, and diffusion coefficient) are covered. From C1 to C100 organics and Ac to Zr inorganics, the data in this handbook is a perfect quick reference for field, lab or classroom usage. By collecting a large – but relevant – amount of information in one source, the handbook enables engineers to spend more time developing new designs and processes, and less time collecting vital properties data. This is not a theoretical treatise, but an aid to the practicing engineer in the field, on day-to-day operations and long range projects. Simplifies research and significantly reduces the amount of time spent collecting properties data

Compiled by an expert in the field, the book provides an engineer with data they can trust in design, research, development and manufacturing

A single, easy reference for critical temperature dependent properties for a wide range of hydrocarbons, including C1 to C100 organics and Ac to Zr inorganics

Existing instrument transformer technologies as well as new measuring principles for current and voltage measurement are described in this book. The properties of conventional current and voltage transformer as well as the dimensioning are discussed in details out of the long experience of the authors. Especially the dielectric dimensioning and the used materials are discussed. Beside this an overview over new modern measuring principles is

given and the technology of low-power instrument transformer, and RC-dividers are shown. This book focuses on key simulation and evaluation technologies for 5G systems. Based on the most recent research results from academia and industry, it describes the evaluation methodologies in depth for network and physical layer technologies. The evaluation methods are discussed in depth. It also covers the analysis of the 5G candidate technologies and the testing challenges, the evolution of the testing technologies, fading channel measurement and modeling, software simulations, software hardware cosimulation, field testing and other novel evaluation methods. The fifth-generation (5G) mobile communications system targets highly improved network performances in terms of the network capacity and the number of connections. Testing and evaluation technologies is widely recognized and plays important roles in the wireless technology developments, along with the research on basic theory and key technologies. The investigation and developments on the multi-level and comprehensive evaluations for 5G new technologies, provides important performance references for the 5G technology filtering and future standardizations. Students focused on telecommunications, electronic engineering, computer science or other related disciplines will find this book useful as a secondary text. Researchers and professionals working within these related fields will also

find this book useful as a reference. Discover how the Internet of Things will change the information and communication technology industry in the next decade The Intelligent Internet of Things explores a unique type of Internet of Things (IoT) architecture, for example, the Web of Things (WoT) with its open character that breaks the barriers among various IoT vertical applications. The authors—noted experts on the topic—examine and compare key technologies from physical to platform level, especially the Narrow Band Internet of Things (NB-IoT) technology. They discuss applications with different data transmission requirements that are typical to IoT. The text also describes the requirements of WoT applications on 5G and includes detailed information on WoT technologies. The Intelligent Internet of Things examines three typical WoT applications: the monitoring application of south-to-north water diversion projects; smart driving applications; and network optimization applications. In addition, the text explores testing and authentication of IoT key technologies, with the required equipment, platform, and outdoor environment development. This important book: Provides information on what IoT/WoT is, when to use it, how to provide IoT services with certain technologies, and more Discusses restful architecture, main protocols (ZigBee, 6lowpan, CoAP, HTML5) Explores key technologies on different layers (sensing, gathering, application) Examines how IoT will change the

information and communication technology industry
Written for professionals working in IoT development, management and big data analytics, Intelligent Internet of Things offers an overview of IoT architecture, key technology, current applications and future development of the technology. This thesis gives an overview of test bench design for inverter operated Medium Voltage (MV) drives with the focus on the active power measurement. The sources of measurement setup uncertainty are analysed and methods are shown to assess these uncertainties. Further, a possibility is shown to do quantitative uncertainty estimations which are verified with measurements through different measurement setups for MV drives operated with multilevel converters. The influence of measurement transducers, voltage dividers, power meters and data acquisition boards are considered. The digital signal processing is analysed and the possibilities to reduce its uncertainty contribution on an active power measurement is shown. An analysis is made with the conventional measurement devices in the MV-range. The transfer behaviour of the devices and the characteristics of the uncertainty are investigated. Measurements are done on typical medium voltage drives with an uncertainty analysis, which shows the essential aspects of active power measurement. The results show the significance of a measurement setup performance. The investigations on the drives are used to indicate the impact

on the determination of the drive efficiency and gives a significant input for further standardisation processes. The handling of measurement uncertainties during active power measurement of drives is shown concerning the permanent topic of energy saving and its efficient use. The work proposes a way of categorising electrical drives in energy efficiency classes and to make their determination comparable. Die vorliegende Dissertation gibt einen Überblick über den Prüfstandsaufbau von umrichtergetriebenen Mittelspannungsantrieben. Die Unsicherheitsquellen werden analysiert und Methoden werden aufgezeigt um die Messunsicherheit zu bewerten. Des Weiteren werden die Machbarkeit von Unsicherheitsabschätzungen gezeigt, welche mit Messungen an typischen Mittelspannungsantrieben mit Umrichterspeisung verglichen werden. Der Einfluss von Messwandlern, Spannungsteilern, Leistungsmessern und Messkarten zur Signalerfassung wird berücksichtigt. Die digitale Signalverarbeitung wird analysiert um den Unsicherheitsbeitrag zur Wirkleistungsmessung zu reduzieren. Es werden konventionellen Messwandler und -teiler im Mittelspannungsbereich bezüglich ihres Übertragungsverhaltens sowie Messunsicherheiten untersucht. Die Ergebnisse der Untersuchungen verdeutlichen die Signifikanz eines performanten Messaufbaus. Des Weiteren werden Auswirkungen auf die Bestimmung der Effizienz aufgezeigt. Die Arbeit

liefert einen wesentlichen Beitrag für weitere Standardisierungsprozesse. Der Umgang mit Messunsicherheiten der Wirkleistungsmessung wird betrachtet im Hinblick auf Energieeinsparpotenziale und deren effiziente Nutzung. Die Arbeit schlägt eine Möglichkeit vor, wie elektrische Antriebe in Energieeffizienzklassen kategorisiert werden können um diese vergleichbar zu machen. The book is a collection of manuscripts proposing original and innovative solutions for accurate distributed monitoring systems, related innovative measurement instruments, distribution grid state forecast algorithms, power flow analysis, frequency and voltage control for stability and quality of service of active networks with distributed generation, and communication systems to acquire distributed measurement data, send commands and receive alarms. The introduction of these innovative solutions can pave the way for the effective transformation of MV and LV distribution networks into smart grids. The book aims to provide readers, Ph.D. students as well as research personnel and professional engineers with information not only on theoretical studies of the recent developments but also the practical application of the proposed solutions for smart grid applications both in LV and MV networks. The simulation of electromagnetic transients is a mature field that plays an important role in the design of modern power systems. Since the first steps in this field to date, a

significant effort has been dedicated to the development of new techniques and more powerful software tools. Sophisticated models, complex solution techniques and powerful simulation tools have been developed to perform studies that are of supreme importance in the design of modern power systems. The first developments of transients tools were mostly aimed at calculating over-voltages. Presently, these tools are applied to a myriad of studies (e.g. FACTS and Custom Power applications, protective relay performance, simulation of smart grids) for which detailed models and fast solution methods can be of paramount importance. This book provides a basic understanding of the main aspects to be considered when performing electromagnetic transients studies, detailing the main applications of present electromagnetic transients (EMT) tools, and discusses new developments for enhanced simulation capability. Key features: Provides up-to-date information on solution techniques and software capabilities for simulation of electromagnetic transients. Covers key aspects that can expand the capabilities of a transient software tool (e.g. interfacing techniques) or speed up transients simulation (e.g. dynamic model averaging). Applies EMT-type tools to a wide spectrum of studies that range from fast electromagnetic transients to slow electromechanical transients, including power electronic applications, distributed energy resources and protection systems.

Illustrates the application of EMT tools to the analysis and simulation of smart grids. Power System Relaying An updated edition of the gold standard in power system relaying texts In the newly revised fifth edition of Power System Relaying, a distinguished team of engineers delivers a thorough update to an essential text used by countless universities and industry courses around the world. The book explores the fundamentals of relaying and power system phenomena, including stability, protection, and reliability. The latest edition provides readers with substantial updates to transformer protection, rotating machinery protection, nonpilot distance protection of transmission and distribution lines, power system phenomena, and bus, reactor, and capacitor protection. It also includes an expanded introduction to the elements of protection systems. Problems and solutions round out the new material and offer an indispensable self-contained study environment. Readers will also find: A thorough introduction to protective relaying, including discussions of effective grounding and power system bus configurations In-depth explorations of relay operating principles and current and voltage transformers Fulsome discussions of nonpilot overcurrent and distance protection of transmission and distribution lines, as well as pilot protection of transmission lines Comprehensive treatments of rotating machinery protection and bus, reactor, and capacitor protection Perfect for

undergraduate and graduate students studying power system engineering, Power System Relaying is an ideal resource for practicing engineers involved with power systems and academic researchers studying power system protection. Increased to include over 25,000 organic and inorganic compounds, The Yaws Handbook of Vapor Pressure: Antoine Coefficients, 2nd Edition delivers the most comprehensive and practical database source for today's petrochemical. Understanding antoine coefficients for vapor pressure leads to numerous critical engineering applications such as pure components in storage vessels, pressure relief valve design, flammability limits at the refinery, as well as environmental emissions from exposed liquids, making data to efficiently calculate these daily challenges a fundamental need. Written by the world's leading authority on chemical and petrochemical data, The Yaws Handbook of Vapor Pressure simplifies the guesswork for the engineer and reinforces the credibility of the engineer's calculations with a single trust-worthy source. This data book is a must-have for the engineer's library bookshelf. Increase compound coverage from 8,200 to over 25,000 organic and inorganic compounds, including sulfur and hydrocarbons Solve process design questions quickly from a single reliable data source Locate answers easily for multiple petrochemical related questions such as bubble point, dew point temperatures, and vapor-liquid equilibrium GAS INSULATED

SUBSTATIONS An essential reference guide to gas-insulated substations The second edition of Gas Insulated Substations (GIS) is an all-inclusive reference guide to gas insulated substations (GIS) and its advanced technologies. Updated to the latest technical developments and applications, the guide covers basic physics of gas insulated systems, SF6 insulating gas and its alternatives, safety aspects and factors to choose GIS. GIS technology, its modular structure, control and monitoring systems, testing, installation rules and guidelines for operation, specification, and maintenance. Detailed information on various types for GIS, with 14 reference project explanations and three extensive case studies give information for the best solutions of practical applications. Special solutions using mobile substations concepts, mixed technology switchgear (MTS) with air and gas insulated technology, underground substations, and the use of special GIS substation buildings e.g., shopping centers, parking lots, city parks, business complexes' or subway stations are explained. Future developments of GIS technology are shown for the next steps in alternatives to SF6, low power instrument transformers, and digitalization of substations. A new chapter explains advanced technologies applied to GIS projects which cover the following; environmental issues for the substation permission process, insulation coordination studies for the network requirements including very fast transients,

project scope development, risk-based asset management, health and safety impact, electromagnetic fields, SF6 decomposition byproducts and condition assessment. Disruptive development steps in gas insulated substations technologies are also covered in this second edition. Vacuum breaking and switching technology for rated voltages of up to 500 kV is explained in detail with its physical background. Principle function and possible implementation of low power instrument transformers (LPIT) are explained and examples of applications are given. The principles of digital twin for gas insulated substations (GIS) and gas insulated transmission lines (GIL) are explained in theory and project applications show the practical use and advantage. The wide and fast-growing technical field of offshore GIS applications for AC and DC is explained on many examples and gives information on special requirements when getting offshore. Theoretical requirements on DC gas insulated systems, methods of testing, prototype installation tests, modular design features, and advantages in applications are given. Finally, impact and advantages of digital substations using GIS are explained. Key features:

Written by leading GIS experts involved in development and project applications Discusses practical and theoretical aspects Detailed material of GIS for new and experienced GIS users, and project planners Invaluable guide to practicing electrical, mechanical and civil

engineers as well as third- and fourth-year electric power engineering students This Green Book provides those involved in transformer procurement with comprehensive guidance on industry best practice to avoid wrong decisions. Transformers are one of the expensive components in the power system, and also contribute a large proportion of the losses. Transformers also have long lives - more than 40 years in many cases. Making the wrong decisions during the procurement process can have serious and long-lasting consequences. This book offers a compact guide to IEC61850 systems, including wide-area implementation, as it has been applied to real substations worldwide. It utilises technical brochures and papers based on existing practice of IEC61850 systems that give stakeholders from different disciplines an understanding of systems in use, their features, how they are applied and approach for implementation. The book offers a holistic practical view considering all relevant interfaces and possibilities. It includes the different applications, practical implementation considerations and choices made for IEC61850 PACS (Protection Automation & Control System) designs. Power system engineers, planners, technicians and researchers will find the book useful for exploring, developing and delivering these systems. Differential protection is a fast and selective method of protection against short-circuits. It is applied in many variants for electrical machines, trans-formers, busbars,

and electric lines. Initially this book covers the theory and fundamentals of analog and numerical differential protection. Current transformers are treated in detail including transient behaviour, impact on protection performance, and practical dimensioning. An extended chapter is dedicated to signal transmission for line protection, in particular, modern digital communication and GPS timing. The emphasis is then placed on the different variants of differential protection and their practical application illustrated by concrete examples. This is completed by recommendations for commissioning, testing and maintenance. Finally the design and management of modern differential protection is explained by means of the latest Siemens SIPROTEC relay series. As a textbook and standard work in one, this book covers all topics, which have to be paid attention to for planning, designing, configuring and applying differential protection systems. The book is aimed at students and engineers who wish to familiarise themselves with the subject of differential protection, as well as the experienced user entering the area of numerical differential protection. Furthermore, it serves as a reference guide for solving application problems. For the new edition all contents have been revised, extended and updated to the latest state-of-the-art of protective relaying. Covering more than 7,800 organic and inorganic chemicals and hydrocarbons, Transport Properties of Chemical and

Hydrocarbons, Second Edition is an essential volume for any chemist or chemical engineer. Spanning gases, liquids, and solids, the book covers all critical properties (including viscosity, thermal conductivity, and diffusion coefficient). From C1 to C100 organics and Ac to Zr inorganics, the data in this handbook is a perfect quick reference for field, lab, or classroom use. By collecting a massive – but relevant – amount of information in one source, the handbook enables engineers to spend more time developing new designs and processes, and less time collecting vital properties data. This is not a theoretical treatise, but an aid to the practicing engineer in the field, on day-to-day operations and long-range projects. Simplifies research and significantly reduces the amount of time spent collecting properties data Compiled by an expert in the field, the book provides engineers with data they can trust All critical properties are covered for ease of reference, including viscosity, thermal conductivity, and diffusion coefficient This book describes the significance of metrology for inclusive growth in India and explains its application in the areas of physical–mechanical engineering, electrical and electronics, Indian standard time measurements, electromagnetic radiation, environment, biomedical, materials and Bhartiya Nirdeshak Dravyas (BND®). Using the framework of “Aswal Model”, it connects the metrology, in association with accreditation and standards, to the areas of science

and technology, government and regulatory agencies, civil society and media, and various other industries. It presents critical analyses of the contributions made by CSIR-National Physical Laboratory (CSIR-NPL), India, through its world-class science and apex measurement facilities of international equivalence in the areas of industrial growth, strategic sector growth, environmental protection, cybersecurity, sustainable energy, affordable health, international trade, policy-making, etc. The book will be useful for science and engineering students, researchers, policymakers and entrepreneurs. A multidisciplinary reference of engineering measurement tools, techniques, and applications "When you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind; it may be the beginning of knowledge, but you have scarcely in your thoughts advanced to the stage of science." — Lord Kelvin Measurement is at the heart of any engineering and scientific discipline and job function. Whether engineers and scientists are attempting to state requirements quantitatively and demonstrate compliance; to track progress and predict results; or to analyze costs and benefits, they must use the right tools and techniques to produce meaningful data. The Handbook of Measurement in Science and Engineering is the most

comprehensive, up-to-date reference set on engineering and scientific measurements—beyond anything on the market today. Encyclopedic in scope, Volume 3 covers measurements in physics, electrical engineering and chemistry: Laser Measurement Techniques Magnetic Force Images using Capacitive Coupling Effect Scanning Tunneling Microscopy Measurement of Light and Color The Detection and Measurement of Ionizing Radiation Measuring Time and Comparing Clocks Laboratory-Based Gravity Measurement Cryogenic Measurements Temperature-Dependent Fluorescence Measurements Voltage and Current Transducers for Power Systems Electric Power and Energy Measurement Chemometrics for the Engineering and Measurement Sciences Liquid Chromatography Mass Spectroscopy Measurements of Nitrotyrosine-Containing Proteins Fluorescence Spectroscopy X-Ray Absorption Spectroscopy Nuclear Magnetic Resonance (NMR) Spectroscopy Near Infrared (NIR) Spectroscopy Nanomaterials Properties Chemical Sensing Vital for engineers, scientists, and technical managers in industry and government, Handbook of Measurement in Science and Engineering will also prove ideal for academics and researchers at universities and laboratories.

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