

Heat Meters Techem

This book catalogs the most popular and commonly used serial-port interfaces and provides details on the specifications and the latest standards, enabling you to select an interface for a new design or verify that an interface is working correctly. Each chapter is based on a different interface and is written in an easy to follow, standard format. With this book you will learn: The most widely used serial interfaces How to select the best serial interface for a specific application or design The trade-offs between data rate and distance (length or range) The operation and benefits of serial data transmission The most common media used for serial data transmission Covers the most popular and commonly used interfaces and provides details on their specifications and standards Explains the key concepts to enable an engineer to select an interface for a new design or verify that an interface is working correctly Each chapter is based on a different interface and is written in an easy to follow, standard format

Existing buildings are responsible for over 40% of the world's total primary energy consumption. An impressive amount of energy could be saved simply by applying energy-efficient technologies. Yet, various market barriers inhibit energy efficiency improvements in existing buildings and result in energy savings that are significantly lower than potentials. This publication provides illustrations of policies and measures implemented in five IEA member countries and the European Union. Each case includes relevant background and contextual information, as well as a detailed evaluation of each policy according to five pre-defined criteria: relevance, effectiveness, flexibility, clarity and sustainability.

This book deals with risk capital provided for established firms outside the stock market, private equity, which has grown rapidly over the last three decades, yet is largely poorly understood. Although it has often been criticized in the public mind as being short termist and having adverse consequences for employment, in reality this is far from the case. Here, John Gilligan and Mike Wright dispel some of the biggest myths and misconceptions about private equity. The book provides a unique and authoritative source from a leading practitioner and academic for practitioners, policymakers, and researchers that explains in detail what private equity involves and reviews systematic evidence of what the impact of private equity has been. Written in a highly accessible style, the book takes the reader through what private equity means, the different actors involved, and issues concerning sourcing, checking out, valuing, and structuring deals. The various themes from the systematic academic evidence are highlighted in numerous summary vignettes placed alongside the text that discuss the practical aspects. The main part of the work concludes with an up-to-date discussion by the authors, informed commentators on the key issues in the lively debate about private equity. The book further contains summary tables of the academic research carried out over the past three decades across the private equity landscape including: the returns to investors, economic performance, impact on R&D and employees, and the longevity and life-cycle of private equity backed deals. A practical, hands-on guide, that provides you with all the tools you need to visualize and analyze your data using network graphs with Gephi. This book is for data analysts who want to intuitively reveal patterns and trends, highlight outliers, and tell stories with their data using Gephi. It is great for anyone looking to explore interactions within network datasets, whether the data comes from social media or elsewhere. It is also a valuable resource for those seeking to learn more about Gephi without being overwhelmed by technical details.

This volume provides a comprehensive review of the statistical theory and methods underlying the estimation of purchasing power parities (PPPs) and real expenditures, the choices made for the 2005 International Comparison Program (ICP) round, and the lessons learned that led to improvements in the 2011 ICP.

Temperature is the most often-measured environmental quantity and scientists are continuously improving ways of sensing it. To present their work in the field of temperature sensing, researchers from distant parts of the world have joined their efforts and contributed their ideas according to their interest and engagement. Their articles will give you the opportunity to understand concepts and uses of fiber-optic sensing technology. The optical fiber Mach-Zehnder interferometer for temperature sensing is presented, as well as the optical fiber-distributed temperature sensor and fiber Bragg grating-based sensor. You can learn about tunable diode laser absorption spectroscopy and its various industrial applications. Last but not least, cutting temperature measurements during the machining of aluminum alloys provides us with an insight into the correlation between cutting conditions, mechanical strength of the aluminum alloy, and the cutting temperature measured using the tool-workpiece thermocouple system. The editors hope that the presented contributions will allow both professionals and readers not involved in the immediate field to understand and enjoy the topic.

this new directory focuses on more than 500 top multinational companies, and nearly 20,000 plants, branches, and subsidiaries located worldwide. And unlike most competitors, Worldwide branch locations of multinational companies (WBLMC) covers companies that are not headquartered in the U.S. in addition to those that are.

The Mergers & Acquisitions Review, edited by Mark Zerdin of Slaughter and May, seeks to provide a richer understanding of the shape of M&A in the global markets, together with the challenges and opportunities facing market participants. This comes at a time when the international market has seen a boom in dealmaking, with many markets reaching post-crisis peaks and some recording all-time highs. Mega-deals have been at the heart of the expanding market, with companies tapping into cash piles and cheap debt to fund transformational deals. Looking behind the headline figures, however, a number of factors suggest dealmaking may not continue to grow as rapidly as it has done recently. This book examines this topic and more across over 55 jurisdictions, as well as providing more general interest chapters covering the European Union, European Private Equity, M&A Litigation, and Offshore Private Equity. Contributors include: Didier Marti, Bredin Prat; Heinrich Knepper, Hengeler Mueller; Javier Ruiz-Camara Bayo, Uria Menendez.

An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases. This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications,

based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources. Key Features: Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture, interworking, and nationwide use cases Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications Illustrates the benefits of the smartgrid concept based on real examples, including business cases This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

Modern buildings are increasingly equipped with actuators and sensors, communication, visualization and control systems. This textbook provides an overview of industrial communication systems and stimulates a basic understanding of network and bus systems for the automation of buildings. After an introduction to EIB/KNX, LON und BACnet technologies, the authors illustrate how these systems can be utilized for specific applications, like air conditioning or illumination. This book assumes only a basic knowledge of mathematics and thanks to its simple explanations and many examples is ideal for students and professional engineers who require practical solutions.

Promoting Energy Efficiency Investments Case Studies in the Residential Sector Organization for Economic

Dieser Band enthält zehn aktuelle Beiträge zur Schweizer Immobilienwirtschaft. Die Arbeiten bieten raschen und einfachen Zugriff auf aktuelle Erkenntnisse aus den Themengebieten «Immobilienmanagement», «Immobilieninvestments», «Immobilienrecht» sowie «Urban Management». Die Publikation Immobilienwirtschaft aktuell erscheint jährlich und wird vom Center for Urban & Real Estate Management (CUREM) herausgegeben. Sie enthält die Zusammenfassung der besten Abschlussarbeiten des Masters of Advanced Studies in Real Estate. Ziel ist die Förderung der akademischen und zugleich praxisnahen Diskussion immobilienrelevanter Themen in der Schweiz. Die vollständigen Abschlussarbeiten stehen auf www.curem.uzh.ch zum kostenlosen Download zur Verfügung. CUREM ist Teil des Institutes für Banking und Finance an der Universität Zürich und widmet sich der immobilienwirtschaftlichen Forschung und Weiterbildung. Ziel ist die Förderung einer professionellen Immobilienwirtschaft in der Schweiz. Nebst dem RICS akkreditierten, berufsbegleitenden Studiengang zum «Master of Advanced Studies in Real Estate» und dem «Certificate of Advanced Studies in Urban Management» führt CUREM verschiedene Kompaktkurse, Expertenworkshops und Fachveranstaltungen durch. This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

A comprehensive guide to the most useful geotechnical laboratory measurements Cost effective, high quality testing of geo-materials is possible if you understand the important factors and work with nature wisely. Geotechnical Laboratory Measurements for Engineers guides geotechnical engineers and students in conducting efficient testing without sacrificing the quality of results. Useful as both a lab manual for students and as a reference for the practicing geotechnical engineer, the book covers thirty of the most common soil tests, referencing the ASTM standard procedures while helping readers understand what the test is analyzing and how to interpret the results. Features include: Explanations of both the underlying theory of the tests and the standard testing procedures The most commonly-taught laboratory testing methods, plus additional advanced tests Unique discussions of electronic transducers and computer controlled tests not commonly covered in similar texts A support website at www.wiley.com/college/germaine with blank data sheets you can use in recording the results of your tests as well as Microsoft Excel® spreadsheets containing raw data sets supporting the experiments

Collection of selected, peer reviewed papers from the 6th International Conference on Advanced Concepts in Mechanical Engineering (ACME 2014), June 12-13, 2014, Iasi, Romania. The 104 papers are grouped as follows: Chapter 1: Science of Materials and Processing Technologies, Chapter 2: Design of Vehicles and Combustion Engines, Chapter 3: Applied Thermodynamics and Heat Transfer, Renewable Energy, Engineering of Thermal Systems, Chapter 4: Technologies and Machines in Agriculture and Food Processing, Chapter 5: Applied Computational Methods in Design and Modeling, Chapter 6: Engineering Management and Engineering Education

A simplified approach to applying the Finite Element Method to geotechnical problems Predicting soil behavior by constitutive equations that are based on experimental findings and embodied in numerical methods, such as the finite element method, is a significant aspect of soil mechanics. Engineers are able to solve a wide range of geotechnical engineering problems, especially inherently complex ones that resist traditional analysis. Applied Soil Mechanics with ABAQUS® Applications provides civil engineering students and practitioners with a simple, basic introduction to applying the finite element method to soil mechanics problems. Accessible to someone with little background in soil mechanics and finite element analysis, Applied Soil Mechanics with ABAQUS® Applications explains the basic concepts of soil mechanics and then prepares the reader for solving geotechnical engineering problems using both traditional engineering solutions and the more versatile, finite element solutions. Topics covered include: Properties of Soil Elasticity and Plasticity Stresses in Soil Consolidation Shear Strength of Soil Shallow Foundations Lateral Earth Pressure and Retaining Walls Piles and Pile Groups Seepage Taking a unique approach, the author describes the general soil mechanics for each topic, shows traditional applications of these principles with longhand solutions, and then presents finite element solutions for the same applications, comparing both. The book is prepared with ABAQUS® software applications to enable a range of readers to experiment firsthand with the principles described in the book (the software application files are available under "student resources" at www.wiley.com/college/helwany). By presenting both the traditional solutions alongside the FEM solutions, Applied Soil Mechanics with ABAQUS® Applications is an ideal introduction to traditional soil mechanics and a guide to alternative solutions and emergent methods. Dr. Helwany also has an online course based on the book available at www.geomilwaukee.com.

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