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Gebäudeautomation in Wohngebäuden (Smart Home)

Riqualificazione architettonica dell'ambiente costruito

La domotica per l'efficienza energetica delle abitazioni

L'efficienza energetica degli edifici pubblici e privati

Delivering Sustainable Buildings

Electrical Atomic Force Microscopy for Nanoelectronics

Construction 4.0

Portable Biosensing of Food Toxicants and Environmental Pollutants

Nachhaltiges Betreiben von Schwimmbädern in Anlehnung an die GEFMA 160

Improving Energy Efficiency and Reducing Emissions through Intelligent Railway Station Buildings

Advances in Catalysis

Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities

Smart Cities

Public Participation and State Building in China

Climate Adaptability of Buildings

Sustainability in Energy and Buildings

Energiemanagement

Immobilienmanagement erfolgreicher

Bestandshalter

Bauherren-Handbuch -mit Arbeitshilfen online

Plasmonic Nanoelectronics and Sensing

Smart Cities and Smart Spaces: Concepts,

Methodologies, Tools, and Applications

Clinical Electromyography, An Issue of Neurologic

Clinics - E-Book

Progress in Adhesion and Adhesives

Office Buildings

Intermediate Accounting: Reporting and Analysis,

2017 Update

Cold Climate HVAC 2018

American Fertilizer

Smart Rules for Smart Cities

Federal Register

Integrale Planung der Gebäudetechnik

Energiemanagement

The United States Patents Quarterly

Die EnEV 2014 und deren Bedeutung für die

Gebäudeautomation

Faber & Kell's Heating and Air-Conditioning of

Buildings

IT für Smart Grids

E-Planning and Collaboration: Concepts,

Methodologies, Tools, and Applications

Advances in Proinsulin Research and Application:

2013 Edition

Materials for Architects and Builders

Architecture and Design: Breakthroughs in

Research and Practice

Socio-economic Systems: Paradigms for the

Future

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SUSAN WALSH

Gebäudeauto- mation in Wohngebäude n (Smart Home)

Springer-
Verlag

With the ever-increasing amount of research being published it is a Herculean task to be fully conversant with the latest research developments in any field, and the arena of adhesion and adhesives is no exception. Thus, topical review articles

provide an alternate and very efficient way to stay abreast of the state-of-the-art in many subjects representing the field of adhesion science and adhesives. Based on the success and the warm reception accorded to the premier volume in this series "Progress in Adhesion and Adhesives" (containing the review articles published in Volume 2 (2014) of the journal *Reviews of*

Adhesion and Adhesives (RAA)), volume 2 comprises 14 review articles published in Volume 4 (2016) of RAA. The subjects of these 14 reviews fall into the following general areas: 1. Surface modification of polymers for a variety of purposes. 2. Adhesion aspects in reinforced composites 3. Thin films/coatings and their adhesion measurement 4. Bioadhesion and bio-implants 5.

<p>Adhesives and adhesive joints 6. General adhesion aspects The topics covered include: surface modification of natural fibers for reinforced polymer composites; adhesion of submicrometer thin metals films; surface treatments to modulate bioadhesion; hot-melt adhesives from renewable resources; particulate-polymer composites; functionally graded</p>	<p>adhesively bonded joints; fabrication of nano-biodevices; effects of particulates on contact angles , thermal stresses in adhesively bonded joints and ways to mitigate these; laser-assisted electroless metallization of polymer materials; adhesion measurement of coatings on biodevices/implants; cyanoacrylate adhesives; and adhesion of green flame retardant coatings onto</p>	<p>polyolefins. Riqualificazi one architettonic a dell'ambient e costruito diplom.de Buildings in the People's Republic of China (PRC) consume 21% of the total energy produced in the country. This study analyzes and proposes feasible energy-saving and emission-reducing solutions for domestic railway stations in the PRC. The use of intelligent building controls</p>
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support reduction of energy consumption, minimization or elimination of energy wastes, and cost savings. Strong institutional mechanisms and railway building management methods and policies also promote technological innovation. Moreover, these are necessary to balance the interests of multiple parties to be able to achieve energy efficiency in railway station buildings in the PRC. *La domotica per l'efficienza energetica delle abitazioni* Haufe-Lexware Advances in Catalysis, Volume 60 fills the gap between journal papers and textbooks across the diverse areas of catalysis research, with this updated volume in the series covering Advances in Photocatalysis, Advances in Catalysis for Biomass Conversion, Advances in Catalysis for Methanol to Olefin Conversion, and Advances in Catalysis for Syngas Conversion to Hydrocarbons. For more than 60 years, this series has dedicated itself to record and present the latest progress in the field of catalysis, providing the scientific community with comprehensive and authoritative reviews. It is an invaluable and comprehensive resource for chemical engineers and

chemists working in the field of catalysis in both academia and industry. Contains authoritative reviews written by experts in the field. Explores topics that reflect progress in the field, such as catalyst synthesis, catalyst characterization, catalytic chemistry, reaction engineering, computational chemistry, and physics. Provides insightful and critical articles that are fully edited to suit various backgrounds.

L'efficienza energetica degli edifici pubblici e privati

Cengage Learning Plasmonic nanostructures provide new ways of manipulating the flow of light with nanostructures and nanoparticles exhibiting optical properties never before seen in the macro-world. Covering plasmonic technology from fundamental theory to real world applications, this work provides a comprehensive overview of the field. • Discusses the fundamental theory of plasmonics, enabling a deeper understanding of plasmonic technology • Details numerical methods for modeling, design and optimization of plasmonic nanostructures • Includes step-by-step design guidelines for active and passive plasmonic devices,

demonstrating the implementation of real devices in the standard CMOS nanoscale electronic-photonic integrated circuit to help cut design, fabrication and characterisation time and cost • Includes real-world case studies of plasmonic devices and sensors, explaining the benefits and downsides of different nanophotonic integrated circuits and sensing

platforms. Ideal for researchers, engineers and graduate students in the fields of nanophotonics and nanoelectronics as well as optical biosensing. *Delivering Sustainable Buildings* Edizioni Nuova Cultura This volume presents the proceedings of the 9th Cold Climate HVAC conference, which was held in Kiruna, Sweden in 2018. The conference highlighted key technologies

and processes that allow scientists, designers, engineers, manufacturers and other decision makers in cold climate regions to achieve good indoor environmental quality (IEQ) with a minimum use of energy and other resources. The conference addressed various technical, economic and social aspects of buildings and HVAC systems in new and renovated buildings. This

proceedings volume gathers peer-reviewed papers by a diverse and international range of authors and showcases perspectives and practices in cold climate building design from around the globe. The following major aspects, which include both fundamental and theoretical research as well as applications and case studies, are covered: (1) Energy and power

efficiency and low-energy buildings; (2) Renovating buildings; (3) Efficient HVAC components; (4) Heat pumps and geothermal systems; (5) Municipal and city energy systems; (6) Construction management; (7) Buildings in operation; (8) Building simulation; (9) Reference data; (10) Transdisciplinary connections and social aspects; (11) Indoor environments and health; (12) Moisture safety and

water damage; (13) Codes, regulations, standards and policies; and (14) Other aspects of buildings in cold climates.

Electrical Atomic Force Microscopy for Nanoelectronics John Wiley & Sons
Das Buch stellt die Anforderungen der ISO 50001 als Grundlage für eine Zertifizierung dar. Dabei wird immer die Sicht des Energiemanagementbeauftragten im Auge behalten,

<p>indem praktische Hinweise für die Umsetzung und zu den einzelnen Normenpunkt en gegeben werden. Die Änderungen zur Vorgängernorm DIN EN 16001 sind dargestellt und Möglichkeiten der Integration eines Energiemanagementsystems in bestehende Systeme nach ISO 9001 und ISO 14001 werden beschrieben. Damit bietet das Buch sowohl</p>	<p>Neueinsteiger n als auch Routiniers eine wertvolle Hilfe, die in Form dieses Enchiridions zur Verfügung steht. <u>Construction 4.0</u> CRC Press Seit dem 01. Mai 2014 gilt die EnEV 2014 (Energie-Einsparverordnung). Neu ist, dass erstmals auch der Automationsgrad des Gebäudes zur Erstellung des Energieausweises berücksichtigt werden muss. Mit der Verschärfung der EnEV 2014 zum 01. Januar 2016</p>	<p>reduziert sich der erlaubte Jahres-Primärenergie bedarf um weitere 25%. Vor diesem Hintergrund setzt sich zunehmend die Erkenntnis durch, dass man auf den optimierten Anlagenbetrieb durch Gebäudeautomation nicht verzichten kann. Diese Querbezüge zwischen der Automation und der EnEV werden im vorliegenden Buch dargestellt und mit Hinweisen ergänzt, wie diese</p>
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<p>technisch sinnvoll und insbesondere nutzergerecht umgesetzt werden können. Im Wesentlichen werden im Buch die folgenden Themenfelder behandelt: - Energetische Grundbegriffe der EnEV 2014 - DIN V 18599 und EN 15232 (relevante Normen) - Checklisten und Hilfsmittel zur Bestimmung des Einsparpotenzi als durch bedarfsgeführ ten Betrieb - Normgerechte Bewertung von Gebäuden</p>	<p>hinsichtlich der Gebäudeautomation - Zertifizierungsprogramm der eu.bac - Planungsprozess für Raum- und Anlagenautomation <u>Portable Biosensing of Food Toxicants and Environmental Pollutants</u> Springer-Verlag As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. E-planning is a</p>	<p>significant component in addressing the key concerns as the world population moves towards urban environments. E-Planning and Collaboration: Concepts, Methodologies , Tools, and Applications contains a compendium of the latest academic material on the emerging interdisciplinary areas of e-planning and collaboration. Including innovative studies on data management,</p>
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urban development, and crowdsourcing, this multi-volume book is an ideal source for planners, policymakers, researchers, and graduate students interested in how recent technological advancements are enhancing the traditional practices in e-planning. *Nachhaltiges Betreiben von Schwimmbädern in Anlehnung an die GEFMA* 160 Springer Materials for Architects and Builders provides a

clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key physical properties, specification and uses. Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture-related courses, and this established textbook helps the reader to

do just that with the help of colour photographs and clear diagrams throughout. This new edition has been completely revised and updated to include the latest developments in materials research, new images, appropriate technologies and relevant legislation. The ecological effects of building construction and lifetime use remain an important focus, and this new edition

includes a wide range of energy saving building components.

Improving Energy Efficiency and Reducing Emissions through Intelligent Railway Station Buildings IGI Global

This book examines bioclimatic design with a focus on the application of climate adaptability in the design of future buildings and renovation of existing energy-efficient

buildings. It addresses the challenge of how to construct and renovate buildings so that they maintain desired performance even as the climate changes in future decades. The book is divided into six chapters that guide the reader from basic concepts to discussions on specific aspects of bioclimatic design, including: Why do we construct buildings and why do they

matter? Where should we get started with bioclimatic design? The opportunities and potential held by climate for the by bioclimatic architecture and design. How and why should we design bioclimatic buildings to accommodate future climatic conditions? Climatic changes and implications for the bioclimatic design of buildings. The author presents an overview of effective

bioclimatic design strategies that enable climate-adaptable buildings. He also addresses the problems of designing with climate, which are relevant for all types of building design—in particular, the implications for bioclimatic buildings that are intrinsically connected to the climate they were adapted to. The book combines representative examples, diagrams, and illustrations,

and concludes each chapter by reviewing the most important findings and concepts discussed. The book offers a valuable source of information for researchers and architectural engineers, who will gain essential insights into the process of using the available tools and data to design buildings that can respond to future climate challenges, as well as a general

introduction into the field of bioclimatic building design. The book will also be of interest to graduate students and architects, as it approaches bioclimatic design with a particular focus on the analytical design process for such buildings.

Advances in Catalysis IGI Global

This book is reflective of a science-based vision of the future development paradigm of economic and social

systems. It deals with the digitization as the technological basis for the future development of economic and social systems and presents a review of groundbreaking technologies and prospects for their application. The specific character of the industry and prospects for the application of digital technologies in business are analyzed. A rationale is provided for future prospects for

the sustainable development of economic and social systems in a digital economy. The authors determine the process of the formation and development of the information-oriented society, social and educational aspects of the digitization, as well as the institutional framework of the digital future of social and economic systems. The book combines the best works

following the results of the 12th International Research-to-Practice Conference "Artificial Intelligence: Anthropogenic Nature vs. Social Origin" that was held by the Institute of Scientific Communications (ISC) in cooperation with the Siberian Federal University and the Krasnoyarsk Regional Fund of support of scientific and technical activities on 5-7 December

2019, in Krasnoyarsk, Russia, as well as following the results of the 3rd International Research-to-Practice Conference “Economic and Social Systems: Paradigms for the Future” that was held by the ISC in cooperation with the Pyatigorsk State University on 5–6 February 2020. The target audience of the book consists of representatives of the academic community

concerned with the future prospects for the development of economic and social systems, as well as economic agents engaged in the digitization of business processes, and representative agencies regulating the development of business systems for their progressivity, sustainability and competitiveness. Handbook of Research on

Social, Economic, and Environmental Sustainability in the Development of Smart Cities Springer
This book explores non-electoral means of public participation in contemporary China, both as an outcome of and a key contributor to the party-state’s efforts to improve its governing capacity. Examining consultative meetings, public hearings, and the use of surveys and

questionnaires in Zhejiang province, on an empirical level, the study evaluates the historical development and institutional backgrounds of these mechanisms, as well as provides a critical assessment of their achievements and failures. At the same time, on a theoretical level, this book contributes to the broader scholarship on contemporary Chinese politics and

political development within one-party regimes, as well as debates about state building and democratisation. Relying on the distinction between access to and exercise of power, it concludes that non-electoral public participation is in fact a function of state building. Developing a state capable of producing effective solutions to governing challenges, it is argued, requires public

participation in the governing process. With analysis informed by interviews with local-level policy-makers and officials, academics, and citizens' representatives and activists, *Public Participation and State Building in China* will be a valuable research resource for students and scholars of Chinese politics, political science, and civil society. *Smart Cities*

Springer-Verlag The UK government has committed to reducing the nation's carbon emissions by 80% by 2050. Buildings currently use almost half of the UK's generated energy and they are now the focus of an unprecedented drive to cut energy use in our homes, offices, schools, libraries - in fact in almost every building, public or private. Delivering Sustainable

Buildings: an industry insider's view offers peer-to-peer insights and advice from a leading practitioner in this field and brings together in one book an overview of the main issues to consider when creating energy-efficient and sustainable buildings. A resource to dip into for practical advice, which is both highly readable and also backed up by in-depth technical knowledge, giving the

important points to note and common pitfalls to avoid. Based on observations of an author with hands-on experience of dealing with the various elements of the building services engineering industry, the book gives a unique insight into the particular challenges faced by designers, project managers, contractors and installers working to deliver lower carbon

and sustainable building projects and operation. There is a lot of guidance on sustainable buildings available from reputable sources including BRE, CIBSE, B&ES, ECA and BSRIA. This book is different in that it speaks directly to contractors and practitioners, with practical messages dealing with real on-site challenges, offering practical advice based

on experience. Many contractors are now faced with a business choice of offering services related to issues of the energy hierarchy, minimising energy use, providing good building automation and controls and then looking further at microgeneration/renewables. Here they must decide what technologies might be suitable for their businesses, as well as considering what level of

training is required before they or their employees can start to work with these technologies. Delivering Sustainable Buildings: an insider's view will help specialist contractors and facilities managers understand sustainable buildings at the strategic level (legislation, finance, training) and then to offer practical advice on various aspects of sustainable buildings

(water use, energy-efficient building services, commissioning and keeping the building maintained to optimum performance) to their clients.

Public Participation and State Building in China

Springer Technological evolutions have changed the field of architecture exponentially, leading to more stable and energy-efficient building structures. Architects and

engineers must be prepared to further enhance their knowledge in the field in order to effectively meet new and advancing standards. Architecture and Design: Breakthroughs in Research and Practice is an authoritative resource for the latest research on the application of new technologies and digital tools that revolutionize the work of architects globally,

aiding in architectural design, planning, implementation, and restoration. Highlighting a range of pertinent topics such as design anthropology, digital preservation, and 3D modeling, this publication is an ideal reference source for researchers, scholars, IT professionals, engineers, architects, contractors, and academicians seeking current research on

the development and creation of architectural design. Climate Adaptability of Buildings Asian Development Bank Advances in Proinsulin Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about C-Peptide. The editors have built Advances in Proinsulin Research and

Application: 2013 Edition on the vast information databases of ScholarlyNews .™ You can expect the information about C-Peptide in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Proinsulin Research and Application: 2013 Edition has been produced by the world's

leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at

<p>http://www.ScholarlyEditions.com/. <i>Sustainability in Energy and Buildings</i> Walter de Gruyter GmbH & Co KG Wie kann die Bau- und Immobilienwirtschaft nachhaltig professionalisiert werden? Wie kann eine realistische Zeit- und Kostenplanung auch bei komplexen Projekten vorgenommen werden? Und wie können Immobilienhalter den Wert ihrer Immobilien erhöhen? Erfahrene</p>	<p>Praktiker aus unterschiedlichen Wissenschaftsbereichen bündeln in diesem Buch ihre wichtigsten Empfehlungen für Gewerbe, Immobilienfonds, Industrie, Kirchen, Öffentliche Hand, Sozialwirtschaft und Wohnungswirtschaft. Von der Vision über Strategien, Ziele und Rahmenbedingungen bis zu Fragen der Organisation, der Umsetzung und der Dokumentatio</p>	<p>n wird in Form von Best Practices beschrieben, wie Immobilien zielgerichtet gemanagt werden können. Mit Fachbeiträgen von Holger Basten, Ulrich Baum, Martin Dossmann und Thomas Weiler, Peter Forster, Gerhard Führer, Siegfried Gallitschke, Thomas Giel, Thomas Glatte, Bernd Hanke, Wolfgang Inderwies, Stefan Korthals und Emanuel Eckel,</p>
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Johannes
Krämer,
Dagmar Reiß-
Fechter, Birgit
Schaarschmidt
, Adalbert
Schmidt, Marc
Schulirsch,
Ingo Strugalla,
Jörn von der
Lieth und
Dorit Brauns
sowie Gerd
Warda.

Energiemanagement

Routledge
The
tremendous
impact of
electronic
devices on our
lives is the
result of
continuous
improvements
of the billions
of
nanoelectronic
components
inside
integrated

circuits (ICs).
However,
ultra-scaled
semiconductor
devices
require
nanometer
control of the
many
parameters
essential for
their
fabrication.
Through the
years, this
created a
strong alliance
between
microscopy
techniques
and IC
manufacturing
. This book
reviews the
latest
progress in IC
devices, with
emphasis on
the impact of
electrical
atomic force
microscopy

(AFM)
techniques for
their
development.
The operation
principles of
many
techniques
are
introduced,
and the
associated
metrology
challenges
described.
Blending the
expertise of
industrial
specialists and
academic
researchers,
the chapters
are dedicated
to various AFM
methods and
their impact
on the
development
of emerging
nanoelectronic
devices. The
goal is to

introduce the major electrical AFM methods, following the journey that has seen our lives changed by the advent of ubiquitous nanoelectronic devices, and has extended our capability to sense matter on a scale previously inaccessible.

Immobilienmanagement erfolgreicher Bestandshalter

Routledge
In Schwimmbädern sind gebäudetechnische Anlagen für deren Nutzung und Erhalt von

großer Bedeutung. Für einen nachhaltigen Betrieb ist es wichtig die technischen Anlagen in ihrem bestimmungsge-
mäßigen Zustand zu erhalten und die Anlagen unbeschränkt und verantwortungsvoll nach den anerkannten Regeln der Technik und den Herstellerangaben zu betreiben. Gesundheitliche oder materielle Schäden, die durch mangelhafte Instandhaltung

gen der technischen Anlagen entstehen, können die Betriebskosten deutlich überschreiten. Durch fachkundigen Betrieb der gebäudetechnischen Anlagen kann der Energieverbrauch von Gebäuden gesenkt und der Lebenszyklus der technischen Anlagen und Einrichtungen verlängert werden. Ein Facility-geschultes Personal ist dafür

notwendig. Eine grundlegende Voraussetzung, um hohe Energieeffizienz zu erreichen, ist es bereits in der Planungsphase Energiebedarfe der technischen Komponenten berechnen zu können. Dadurch können einzelne Komponenten und das ganzheitliche Gebäudekonzept optimiert werden. Die GEFMA 160 definiert die Grundlagen für die Nachhaltigkeit

im FM und benennt Schnittstellen zur Nachhaltigkeit einer Immobilie. Durch die Beschreibung von Themenfeldern und Kriterien zur Nachhaltigkeit erhält der Benutzer der Richtlinie eine Orientierung. In der vorliegenden Studie werden die theoretischen Konzepte eines Schwimmbadbetriebs betrachtet und es wird ein Vergleich zwischen zwei Praxisbeispiel

en vorgenommen. Aus Datenschutzgründen wurden die Daten der konkreten Schwimmbäder geschwärzt. Bauherren-Handbuch - mit Arbeitshilfen online Springer Nature As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. Urban planning is a significant component in addressing the key concerns as

the world population moves towards the city and leaves the rural environment behind, yet there are many factors to consider for a well rounded community. The Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities brings together the necessary research and interdisciplinary discussion to address dilemmas created by

population growth and the expansion of urban environments. This publication is an essential reference source for researchers, academicians, investors, and practitioners interested in the urban planning and technological advancements necessary for the creation of smart cities. Plasmonic Nanoelectronics and Sensing Woodhead Publishing Neben der Beschreibung der Gebäudeauto

mation aus technischer Sicht und der Erläuterung der Akzeptanzforschung, erfolgt eine differenzierte Akzeptanzanalyse. Zum einen wird die bloße Einstellung der Menschen zur Gebäudeautomation in Wohngebäuden untersucht, zum anderen werden die Faktoren analysiert, die zu einer Anschaffung der Gebäudeautomation führen oder diese verhindern. Darüber

hinaus wird
die
Nutzungsphas
e, genauer die
Akzeptanz bei

der
tatsächlichen
Nutzung
betrachtet.
Beleuchtet
werden zudem

die Potenziale
dieser
Technologie
und deren
Realisierung.