this volume analyzes sustainability related innovations in the building sector and discusses how regional contexts articulate transition trajectories toward green building. it presents biographies of drivers and processes of green building innovation in four case studies: brisbane (aus), freiburg (ger), luxembourg (lu), and vancouver (ca). two of them are relatively well known for their initiatives to mitigate climate change, particularly in the building sector, whereas the other two have only recently become more active in promoting green building. the volume places emphasis on development paths, learning processes, and innovations. the focus of the case studies is not restricted to purely technological aspects but also integrates regulatory, procedural, institutional, and other processes and routines and their influence on the variations of the building sector. the diversity of the selected case studies offers the reader the opportunity to gain a thorough understanding of how sustainability developments have unfolded in different city regions. case study specific catalogues of transition paths provide insights to inform policy debates and planning processes. the catalogues identify crucial innovations, technological, regulatory, etc., and explain the factors and circumstances that have led to their success and broader acceptance. in freiburg, vancouver, luxembourg, and brisbane, with the help of a number of micro case studies within each of the four city regions, the case studies also offer ground for comparison and identification of differences. the book represents the outcome of the greenregio project, which stands for green building in regional strategies for sustainability, multi-actor governance, and innovative building technologies in europe, australia, and canada. greenregio was a 3-year project.
energy policy instruments and technical change in the residential building sector volume 15 sustainable urban areas

Inter research project funded by the national research fund Luxembourg fNR and the German Research Foundation DFG.

Building knowledge constructing histories brings together the papers presented at the sixth international congress on construction history 6ICCH Brussels Belgium 9-13 July 2018. The contributions present the latest research in the field of construction history covering themes such as building actors, building materials, the process of building structural theory and analysis, building services and techniques, socio-cultural aspects, knowledge transfer, the discipline of construction history. The papers cover various types of buildings and structures from ancient times to the 21st century from all over the world. In addition, thematic papers address specific themes and highlight new directions in construction history research. Fostering transnational and interdisciplinary collaboration, building knowledge constructing histories is a must-have for academics, scientists, building conservators, architects, historians, engineers, designers, contractors, and other professionals involved or interested in the field of construction history. This is volume 2 of the book set.

Sustainable built environment is a component of the Encyclopedia of Technology, Information, and Systems Management Resources in the Global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty-one encyclopedias. Environmental conservation and technological innovation are two principal forces that drive the building industry toward the future. Technological innovation offers many opportunities to make buildings more dynamic and comfortable and occupants more comfortable and productive. The necessity of environmental conservation on the other hand compels all types of developments and human activities to be environmentally responsive. The content of the theme on sustainable built environment is organized with state-of-the-art presentations covering several topics: urban design, emerging issues in building design, environment, energy, and health in housing design, culture, management strategies and policy issues in the sustainable built environment using technology to improve the quality of city life. Urban and regional transportation which are then expanded into multiple subtopics each as a chapter. These two volumes are aimed at the following five major target audiences: university and college students, educators, professional practitioners.
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research personnel and policy analysts managers and decision makers and ngos energy performance policy in the building sector such as is described by eu directive known as epbd has the aim of reducing energy consumption in buildings given the importance of the development of innovations in energy technology and a transition to a sustainable energy supply system it is necessary that policy instruments for energy conservation in the building sector stimulate the development and diffusion of innovations this publication contributes to knowledge about the content of energy performance policy and concludes that the effect of energy performance policy in encouraging innovation is limited the study of the innovation system of the dutch construction industry identifies how the project based nature of the construction industry is an obstacle to learning rich collaboration between the various stakeholders the study contributes to the discussion about the impact of government policy for energy conservation in the building sector in the context of climate change policy expanding on the findings of brick by brick better housing policies this second volume delves into key trends shaping housing policies in the post covid 19 era the first chapter provides an overview and discusses the need to monitor the pandemic s impacts on housing affordability address the energy crisis through low carbon housing initiatives maintain financial resilience amid fluctuating housing cycles and facilitate the reshaping of housing markets in response to remote work and environmental concerns project management is of critical importance in construction yet its execution poses major challenges in order to keep a project on track decisions often have to be made before all the necessary information is available drawing on a wide range of research managing construction projects proposes new ways of thinking about project management in construction exploring the skills required to manage uncertainty and offering techniques for thinking about the challenges involved the second edition takes the information processing perspective introduced in the first edition and develops it further in particular this approach deepens the reader s understanding of the dynamics in the construction project process from the value proposition inherent in the project mission to the functioning asset that generates value for its building sector users managing construction projects is a unique and
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building technology science urban protection and regeneration urban development strategy ecological construction and intelligent control sustainable infrastructure ii logistics and supply chain management warehousing and distribution logistics outsourcing logistics automation production and material flow supply chain management technology supply chain risk management global service supply chain management supply chain planning and inventory management coordination and collaboration of supply chain networks governance and regulatory aspects affecting supply chain management iii urban traffic management smart grid management belt and road development intelligent traffic analysis and planning management big data and transportation management the proceedings of icuems 2022 will be useful to professionals academics and ph d students interested in the above mentioned fields emphasis was put on basic methodologies scientific development and engineering applications icuems 2022 is to provide a platform for experts scholars engineers and technical researchers engaged in the related fields of urban engineering management to share scientific research achievements and cutting edge technologies understand academic development trends broaden research ideas strengthen academic research and discussion and promote the industrialization cooperation of academic achievements experts scholars business people and other relevant personnel from universities and research institutions at home and abroad are cordially invited to attend and exchange this book provides best practices for decarbonizing cities in east asia in which buildings are the major contributor to carbon emissions beyond the global commitment through the paris agreement to make collective efforts on climate action and accelerated policies investment and development at the country and city level to combat climate change are occurring at an unprecedented rate rapid urbanization and increasing energy demand for large and dense asian cities require smart and sustainable strategies to balance development with decarbonization a poly centric approach is needed where a combination of policy market and technology driven changes can aid the transition towards development of carbon neutral cities with practical examples in the implementation of the united nations sustainable development goals green financing climate action roadmap and policy deployment of renewable energy policy instruments and technical change in the residential building sector volume 15 sustainable urban areas
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energy and low to zero carbon buildings readers can find the motivation considerations and implementation pathways to facilitate the transition into the new normal it is the hope of the authors to encourage readers to see successful pathways in transitioning into a carbon free industry and overcoming the effects of climate extremes describes developments in passive solar technology that will save time energy and resources in planning for the buildings of the future this companion to passive cooling and solar building architecture volumes 8 and 9 describes developments in passive solar technology that will save time energy and resources in planning for the buildings of the future it is filled with tips and useful research for architects and designers and includes three substantial chapters on general modeling passive solar heating works properly designed and constructed it is cost effective practical comfortable and aesthetic balcomb s introductory remarks set the tone for the rest of the contributions which describe the considerable record of achievements in passive solar heating balcomb summarizes and evaluates the era between 1976 and 1983 when most of the major developments took place and highlights the design features that have contributed to effective buildings three chapters cover modeling passive systems applicable to both heating and cooling and six chapters focus on the application of passive solar heating with emphasis on components analytical results for specific systems test modules subsystem integration into buildings performance monitoring and results and design tools j douglas balcomb is a principal engineer with the solar energy research institute housing is a major contributor to co2 emissions in europe and america today and the construction of new homes offers an opportunity to address this issue providing homes that achieve zero carbon carbon neutral zero net energy or energy plus standard is becoming the goal of more innovative house builders globally whilst energy providers seek to decarbonise the energy supply to new and existing development various new technical systems for achieving these goals are beginning to emerge for example the passive house whose energy requirement for space heating and cooling is almost zero the smart grid that has revolutionized the management of energy whilst enabling the connection of small scale renewable energy producers and electric vehicles to the grid or the energy policy instruments and technical change in the residential building sector volume 15 sustainable urban areas
energy policy instruments and technical change in the residential building sector volume 15 sustainable urban areas

Super grid which will enable zero carbon energy to be generated in the Sahara desert and stored in Norway. This book explores the diverse approaches that are being adopted around the world to deliver zero carbon homes and the different societal systems and geographic circumstances in which they have developed. It postulates a roadmap for delivering zero carbon homes together with a toolbox approach for policy and practice to suit particular national and local circumstances. A series of case studies are presented that offer lessons for delivering zero carbon homes; these examples are also used to demonstrate how prototype systems can move into the mainstream. The book highlights some of the instruments and mechanisms that could be used to support this transformation and addresses the wider implications of introducing these innovative systems in terms of industry lifestyle and urban form. This comprehensive and up-to-date collection of data on the Asian construction sector presents a unique guide to construction economics in the following countries: Australia, China (Mainland), Hong Kong, India, Indonesia, Japan, Korea, and Malaysia. Winner of an outstanding academic title award from Choice Magazine, Encyclopedia of Environmental Management gives a comprehensive overview of environmental problems, their sources, their assessment, and their solutions. Through in-depth entries and a topical table of contents, readers will quickly find answers to questions about specific pollution and management issues. Edited by the esteemed Sven Erik Jørgensen and an advisory board of renowned specialists, this four-volume set shares insights from more than 500 contributors, all experts in their fields. The encyclopedia provides basic knowledge for an integrated and ecologically sound management system. Nearly 400 alphabetical entries cover everything from air, soil, and water pollution to agriculture, energy, global pollution, toxic substances, and general pollution problems. Using a topical table of contents, readers can also search for entries according to the type of problem and the methodology. This allows readers to see the overall picture at a glance and find answers to the core questions: what is the pollution problem and what are its sources? What is the big picture or what background knowledge do we need? How can we diagnose the problem both qualitatively and quantitatively using monitoring and ecological modeling? How can we solve the problem with indicators and services?
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Environmental technology ecotechnology cleaner technology and environmental legislation how do we address the problem as part of an integrated management strategy this accessible encyclopedia examines the entire spectrum of tools available for environmental management an indispensable resource it guides environmental managers to find the best possible solutions to the myriad pollution problems they face also available online this taylor francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options contact us to inquire about subscription options and print online combination packages us tel 1 888 318 2367 email e reference taylorandfrancis com international tel 44 0 20 7017 6062 email online sales tandf co uk climate change human systems and policy is a component of encyclopedia of natural resources policy and management in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the theme on climate change human systems and policy presented in three volumes deals with the interaction between climate and human systems for policy development these volumes discuss history status and prediction of global climate change potential large scale effects of global warming public perceptions toward global climate change effects of potential sea level rises economics of potential climate change response strategies for stabilization of atmospheric composition policy framework and systems management of global climate change these three volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos what are the major housing problems in contemporary britain and how effective are the policies designed to tackle them since the second edition of understanding housing policy was published in 2011 political and financial circumstances have transformed the answers to these questions in this fully updated third edition brian lund both explores how these policies developed and were implemented under the uk coalition government and looks ahead to the possible revisions under the new conservative government integrating
the previous edition with new discussions of such subjects as the austerity agenda following the credit crunch, the impact of the coalition government’s housing policies and new policy ideas. Lund offers keen insight into the pervasive impact of need demand and supply as applied to the housing market and austerity policies. Semiannual with semiannual and annual indexes, references to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information arranged under 39 categories e.g., biomedical sciences, basic studies, biomedical sciences, applied studies, health and safety, and fusion energy. Entry gives bibliographical information and abstracts. Corporate author, subject report number, indexes the two volume reference work chemical technology and the environment provides readers with knowledge on contemporary issues in environmental pollution, prevention, and control as well as regulatory health and safety issues as related to chemical technology. It introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry based on Wiley’s renowned Kirk Othmer Encyclopedia of Chemical Technology. This compact reference features the same breadth and quality of coverage and clarity of presentation found in the original. This book addresses how forward thinking local communities are integrating pre-college STEM education, STEM pedagogy, industry clusters, college programs, and local state and national policies to improve educational experiences, drive local development, gain competitive advantage for the communities and lead students to rewarding careers. This book consists of three sections: foundational principles, city regional case studies from across the globe and state and national context. The authors explore the hypothesis that when pre-college STEM education is integrated with city and regional development, regions can drive a virtuous cycle of education, economic development, and quality of life. Why should pre-college STEM education be included in regional technology policy? When local leaders talk about regional policy, they usually talk about how government, universities, and industry should work together. This relationship is important, but...
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about the hundreds of millions of pre college students taught by tens of millions of teachers supported by hundreds of thousands of volunteers who deliver stem education around the world leaders in the communities featured in stem in the technopolis have recognized the need to prepare students at an early age and the power of real world connections in the process the authors advocate for this approach to be expanded they describe how stem pedagogy priority industry clusters cross sector collaboration and the local incarnations of global development challenges can be made to work together for the good of all citizens in local communities this book will be of interest to government policymakers school administrators industry executives and non profit executives the book will be useful as a reference to teachers professors industry professional volunteers non profit staff and program leaders who are developing running or teaching in stem programs or working to improve quality of life in their communities in the first book of its kind this volume addresses the problem of the future cooling energy demand the global frame defining the actual and future cooling energy consumption in the building sector based on the explored inputs and forecasts a model was developed to predict the future cooling energy consumption of both the residential and commercial sector low energy high performance technological solutions for cooling energy problem in the building and city level will be presented several high quality scientific journals are published in the area of building energy and indoor outdoor environment however one has been missing advances in building energy research fills the gap i recommend aber to all technical libraries research institutes and universities it should also be used by construction companies and those manufacturing building materials and building products professor olli sepp nen president of rehva federation of heating and air conditioning associations advances in building energy research is a unique index it will be an inexhaustible resource for energy related sciences and a continuous inspiration for architects around the world n fintikakis architect and director of uia architecture and renewable energy sources the collection of articles provides an encyclopaedic overview of the state of the art of the subject and they are written clearly and concisely this volume is a must for researchers and advanced
This is a very valuable first volume of a new series with each section written by leaders in their respective fields. Contributions cover a range of related topics and present evaluations of contemporary issues in building energy research that give the reader an immediate and clear insight. Dr. Adrian Pitts, Senior Lecturer in Energy Environment and Sustainability, University of Sheffield, advances in building energy research. Aber offers state-of-the-art information on the environmental science and performance of buildings, linking new technologies and methodologies with the latest research on systems simulations and standards as stringently reviewed as a journal but with the breadth of a book. This annual volume brings together invited contributions from the foremost international experts on energy efficiency and environmental quality of buildings, spanning a broad range of technical subjects. This is a must-have reference on global developments in the field suitable for architects and building engineers, environmental engineers, industry professionals, students, teachers, and researchers in building science. Technical libraries and laboratories this first volume covers double skin façades, artificial intelligence in buildings, indoor thermal comfort, and the progress of the adaptive approach. Heat island research and the effect of urban microclimate, the use of techniques such as high dynamic range imaging and satellite remote sensing, and vital management and monitoring approaches such as post-occupancy evaluation issues for 1955 accompanied by supplement construction volume and costs 1915-1954. The Cambridge Yearbook of European Legal Studies provides a forum for the scrutiny of significant issues in European Union law, the law of the Council of Europe, and comparative law with a European dimension, particularly those issues which have come to the fore during the year preceding publication. The chapters presented are all at the cutting edge of the fields which they address and reflect the views of recognised experts drawn from the University world, legal practice, and the civil services of both the EU and its member states. Inclusion of the comparative dimension brings a fresh perspective to the study of European law and highlights the effects of globalisation of the law more generally and the resulting cross-fertilisation of norms and ideas that has occurred.
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among previously sovereign and separate legal orders the cambridge yearbook of european legal studies is an invaluable resource for those wishing to keep pace with legal developments in the fast moving world of european integration individual chapters please click on the link below to purchase individual chapters from volume 10 through ingenta connect ingentaconnect com subscription to series to place an annual online subscription or a print standing order through hart publishing please click on the link below please note that any customers who have a standing order for the printed volumes will now be entitled to free online access hartjournals co uk cyels subs editorial advisory board albertina albors llorens catherine barnard john bell alan dashwood simon deakin david feldman richard fentiman angus johnston claire kilpatrick okeoghene odudu john spencer founding editors alan dashwood and angela ward the 28th eg ice international workshop 2021 brings together international experts working at the interface between advanced computing and modern engineering challenges many engineering tasks require open world resolutions to support multi actor collaboration coping with approximate models providing effective engineer computer interaction search in multi dimensional solution spaces accommodating uncertainty including specialist domain knowledge performing sensor data interpretation and dealing with incomplete knowledge while results from computer science provide much initial support for resolution adaptation is unavoidable and most importantly feedback from addressing engineering challenges drives fundamental computer science research competence and knowledge transfer goes both ways der 28 internationale eg ice workshop 2021 bringt internationale experten zusammen die an der schnittstelle zwischen fortgeschrittener datenverarbeitung und modernen technischen herausforderungen arbeiten viele ingenieurwissenschaftliche aufgaben erfordern open world resolutionen um die zusammenarbeit mehrerer aktoren zu unterstützen mit approximativen modellen umzugehen eine effektive interaktion zwischen ingenieur und computer zu ermöglichlichen in mehrdimensionalen lösungsräumen instrumente unsicherheiten zu berücksichtigen einschließlich fachspezifischen domänenwissens sensordateninterpretation durchzuführen und mit unvollständigem wissen umgehen während die ergebnisse aus der informatik anfänglich wichtige 15 sustainable urban areas

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unterstützung für die Lösung bieten ist eine Anpassung unvermeidlich und am wichtigsten ist dass das Feedback aus der Bewältigung technischer Herausforderungen die computer wissenschaftliche Grundlagenforschung vorantreibt Kompetenz und Wissenstransfer gehen in beide Richtungen. Soviet Central Asia 1989 explores the economic development of the four republics of Central Asia that suffered under Moscow's economic policies. Uzbekistan, Tajikistan, Turkmenistan and Kirghizia. The Soviet Literary Weekly Literaturnaia Gazeta described Soviet economic policies there as a tragic experiment and this book argues that Central Asia serves as a prime example of the failure of Soviet regional development policies. It analyses the special role of the region in the Soviet economy and such key issues as industrial development, cotton production, water resources, and labour. It also addresses the social ramifications of the underdevelopment of the region's economy and the impact of new policies under Gorbachev. A number of countries have recently discovered and are developing oil and gas reserves. Policy makers in such countries are anxious to obtain the greatest benefits for their economies from the extraction of these exhaustible resources by designing appropriate policies to achieve desired goals. One important theme of such policies is the so-called local content. Created by the sector the extent to which the output of the extractive industry sector generates further benefits to the economy beyond the direct contribution of its value added through its links to other sectors. This paper provides a detailed description of the policy context, objectives, implementation tools and metrics used in a select group of petroleum producing countries including Angola, Brazil, Indonesia, Kazakhstan, Malaysia and Trinidad and Tobago. The information is further analyzed in the paper on local content in the oil and gas sector. World Bank studies Washington D.C. 2013 in his Moving to Sustainable Buildings, paths to adopt green innovations in developed countries. Umberto Berardi explores the transition of the construction sector to sustainable building through the adoption of green innovations. Applying methods ranging from theoretical discussions to interviews and field studies, Berardi describes how organisational models among stakeholders are changing as the sector moves economy. Berardi's book should prove valuable to engineers.
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architects environment researchers and policy makers alike as it successfully weaves together different aspects of green building to create a multidimensional matrix through which sustainable architecture can be understood umberto berardi an assistant professor at the worcester polytechnic institute ma usa teaches courses on sustainable construction architectural engineering systems and building physics he was awarded an msc from the politecnico di bari an msc from the university of southampton uk and a phd from the scuola interpolitecnica in italy his research areas are related to building acoustics sustainable constructions and energy saving technologies for buildings berardi is also a passionate pianist and a strong proponent of interdisciplinary cooperation between the arts and engineering this book covers the whole range of marketing principles skills and knowledge that the modern construction manager from whatever discipline or profession within the industry requires to generate effective and profitable business while aimed primarily at students in the later years of degree diploma and professional courses it will also appeal to students in related disciplines and those following postgraduate and post qualification courses the approach underlines the importance of adopting a proactive attitude towards the marketing of a company’s services in the construction industry it reflects the reality of the transformation that has taken place over the past twenty years where there has been a shift from a highly protected domestic industry to an unprotected global industry the already huge and increasing pool of expertise in the field means that there is much greater choice available to clients and and potential clients the choice of contractor is therefore going to be made increasingly on the basis of factors other than pure expertise therein lies the importance of marketing factors such as price quality value volume time client satisfaction and confidence all come into play and these are presented and differentiated through marketing the book covers all the principles of marketing including strategy marketing campaigns product and service price promotion access and research it also deals with client perceptions confidence expectations and understanding the critical question of operating in a fully globalised industry is also addressed throughout the world there is already increasing interest in ecological design of buildings and natural sustainable urban areas
Ventilation has proved to be the most efficient low energy cooling technique, its practical application, however, is hindered by the lack of information on the complex relationship between the building and its urban environment. In this book, a team of experts provide first-hand information and tools on the efficient use of natural ventilation in urban buildings. Key design principles are explained, enabling readers to decide on the best solution for natural ventilation of buildings, taking into account climate and urban context. In the initial sketches, architects need answers to open problems such as what kind of solution to adopt and how to modify existing strategies to exploit the potential of the site. This book formalizes the multi-criteria analysis of candidate solutions based on quantitative and qualitative estimation of the driving forces (wind and buoyancy) as well as the barriers induced by the urban environment (wind speed reduction, noise, and pollution). It gives a methodology for optimal design of openings. The book is accompanied by a free CD containing software for assessing the potential of a given site, estimating wind speed, and dimensioning the openings for natural ventilation. The methodologies and tools are tested self-contained and user-friendly. About the editors, Cristian Ghiaus and Francis Allard are affiliated with the University of La Rochelle, France. The authors and reviewers combine expertise from universities, research institutions, and industry in Belgium, France, Great Britain, Greece, Portugal, and Switzerland.
Green Building Transitions

2018-05-15

this volume analyzes sustainability related innovations in the building sector and discusses how regional contexts articulate transition trajectories toward green building. It presents biographies of drivers and processes of green building innovation in four case studies: Brisbane, Aus; Freiburg, Ger; Luxembourg, Lu; and Vancouver, Ca. Two of them are relatively well known for their initiatives to mitigate climate change particularly in the building sector, whereas the other two have only recently become more active in promoting green building. The volume places emphasis on development paths, learning processes, and innovations. The focus of the case studies is not restricted to purely technological aspects but also integrates regulatory, procedural, institutional, and other processes and routines and their influence on the variations of the building sector. The diversity of the selected case studies offers the reader the opportunity to gain a thorough understanding of how sustainability developments have unfolded in different city regions. Case study specific catalogues of transition paths provide insights to inform policy debates and planning processes. The catalogues identify crucial innovations, technological, regulatory, etc. and explain the factors and circumstances that have led to their success and broader acceptance. In Freiburg, Vancouver, Luxembourg, and Brisbane, with the help of a number of micro case studies within each of the four city regions, the case studies also offer ground for comparison and identification of differences. The book represents the outcome of the GreenRegio project, which stands for green building in regional strategies for sustainability, multi-actor governance, and innovative building technologies. In Europe, Australia, and Canada, GreenRegio was a 3-year core inter research project funded by the National Research Fund Luxembourg (FNR) and the German Research Foundation (DFG).

Building Knowledge, Constructing
Histories, volume 2

2018-07-11

building knowledge constructing histories brings together the papers presented at the sixth international congress on construction history 6ich brussels belgium 9 13 july 2018 the contributions present the latest research in the field of construction history covering themes such as building actors building materials the process of building structural theory and analysis building services and techniques socio cultural aspects knowledge transfer the discipline of construction history the papers cover various types of buildings and structures from ancient times to the 21st century from all over the world in addition thematic papers address specific themes and highlight new directions in construction history research fostering transnational and interdisciplinary collaboration building knowledge constructing histories is a must have for academics scientists building conservators architects historians engineers designers contractors and other professionals involved or interested in the field of construction history this is volume 2 of the book set

Sustainable Built Environment - Volume I

2009-11-10

sustainable built environment is a component of encyclopedia of technology information and systems management resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias environmental conservation and technological innovation are two principal forces that drive the building industry toward the future technological innovation offers many opportunities to make buildings more dynamic and comfortable and occupants more comfortable and productive the necessity of environmental conservation on the other hand compels all types of developments and human activities to be environmentally responsive the content of the theme on sustainable built environment is organized with state of the art presentations covering several topics urban design emerging issues in building design environment energy and
health in housing design culture management strategies and policy issues in the sustainable built environment using technology to improve the quality of city life urban and regional transportation which are then expanded into multiple subtopics each as a chapter these two volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

Energy Policy Instruments and Technical Change in the Residential Building Sector

2007-11-28

energy performance policy in the building sector such as is described by eu directive known as epbd has the aim of reducing energy consumption in buildings given the importance of the development of innovations in energy technology and a transition to a sustainable energy supply system it is necessary that policy instruments for energy conservation in the building sector stimulate the development and diffusion of innovations this publication contributes to knowledge about the content of energy performance policy and concludes that the effect of energy performance policy in encouraging innovation is limited the study of the innovation system of the dutch construction industry identifies how the project based nature of the construction industry is an obstacle to learning rich collaboration between the various stakeholders the study contributes to the discussion about the impact of government policy for energy conservation in the building sector in the context of climate change policy

Brick by Brick (Volume 2) Better Housing Policies in the Post-COVID-19 Era

2023-06-07

expanding on the findings of brick by brick better housing policies this second volume delves into key trends shaping housing policies in the post covid 19 era the first chapter
provides an overview and discusses the need to monitor the pandemic's impacts on housing affordability address the energy crisis through low carbon housing initiatives maintain financial resilience amid fluctuating housing cycles and facilitate the reshaping of housing markets in response to remote work and environmental concerns

Managing Construction Projects

2009-12-30

Project management is of critical importance in construction yet its execution poses major challenges in order to keep a project on track decisions often have to be made before all the necessary information is available drawing on a wide range of research managing construction projects proposes new ways of thinking about project management in construction exploring the skills required to manage uncertainty and offering techniques for thinking about the challenges involved the second edition takes the information processing perspective introduced in the first edition and develops it further in particular this approach deepens the reader's understanding of the dynamics in the construction project process from the value proposition inherent in the project mission to the functioning asset that generates value for its owners and users managing construction projects is a unique and indispensible contribution to the available literature on construction project management it will be of particular benefit to advanced students of construction and construction project management as well as contractors and quantity surveyors reviews of the first edition a massive review of the art and science of the management of projects that has the great virtue of being a good read wherever it is touched it spills the dirt on things that went wrong elucidates the history so you can understand the industry's current stance draws on other countries experience and explains the latest management processes throughout it is liberally sprinkled with anecdotes and case histories which amply illustrate the dos and don't for practitioners wishing to deliver projects on time to expected quality and price a valuable book for students and practitioners alike john d findlay director stent this is a valuable source for practitioners and
students it covers the a z of project management in a
certain contemporary manner and provides a powerful and
much needed conceptual perspective in place of a purely
prescriptive approach the engaging presentation introduces a
range of challenges to established thinking about project
management often by making comparisons between practices in
the uk and those of other countries peter lansley professor
of construction management university of reading a refreshing
and unique study of information management and its impact
upon international construction project management the book
is well presented and written logical and succinct and is
flexible enough to allow readers to either read from start to
finish or to dip into selected chapters this book deserves to
be an established text for any construction or civil
engineering under and or postgraduate course cnbr 25th
november 2003 generous use is made of anecdotes and case
histories throughout to support the theory the book
illustrates the mistakes made by others and the means to
deliver projects on time and to cost building services
journal april 2004

**Advances in Urban Engineering and**
**Management Science Volume 2**

2022-12-12

advances in urban engineering and management science contains
the selected papers resulting from the 2022 3rd international
conference on urban engineering and management science icuems
2022 covering a wide range of topics the proceedings of
icuems 2022 presents the latest developments in i
architecture and urban planning architectural design and its
theory urban planning and design building technology science
urban protection and regeneration urban development strategy
ecological construction and intelligent control sustainable
infrastructure ii logistics and supply chain management
warehousing and distribution logistics outsourcing logistics
automation production and material flow supply chain
management technology supply chain risk management global
service supply chain management supply chain planning and
inventory management coordination and collaboration of supply
chain networks governance and regulatory aspects affecting supply chain management iii urban traffic management smart grid management belt and road development intelligent traffic analysis and planning management big data and transportation management the proceedings of icuems 2022 will be useful to professionals academics and ph d students interested in the above mentioned fields emphasis was put on basic methodologies scientific development and engineering applications icuems 2022 is to provide a platform for experts scholars engineers and technical researchers engaged in the related fields of urban engineering management to share scientific research achievements and cutting edge technologies understand academic development trends broaden research ideas strengthen academic research and discussion and promote the industrialization cooperation of academic achievements experts scholars business people and other relevant personnel from universities and research institutions at home and abroad are cordially invited to attend and exchange

Decarbonization of Cities in Asia

2023-09-12

this book provides best practices for decarbonizing cities in east asia in which buildings are the major contributor to carbon emissions beyond the global commitment through the paris agreement to make collective efforts on climate action and accelerated policies investment and development at the country and city level to combat climate change are occurring at an unprecedented rate rapid urbanization and increasing energy demand for large and dense asian cities require smart and sustainable strategies to balance development with decarbonization a poly centric approach is needed where a combination of policy market and technology driven changes can aid the transition towards development of carbon neutral cities with practical examples in the implementation of the united nations sustainable development goals green financing climate action roadmap and policy deployment of renewable energy and low to zero carbon buildings readers can find the motivation considerations and implementation pathways to facilitate the transition into the new normal it is the hope
of the authors to encourage readers to see successful pathways in transitioning into a carbon free industry and overcoming the effects of climate extremes

Passive Solar Buildings

1992

describes developments in passive solar technology that will save time energy and resources in planning for the buildings of the future this companion to passive cooling and solar building architecture volumes 8 and 9 describes developments in passive solar technology that will save time energy and resources in planning for the buildings of the future it is filled with tips and useful research for architects and designers and includes three substantial chapters on general modeling passive solar heating works properly designed and constructed it is cost effective practical comfortable and aesthetic balcomb s introductory remarks set the tone for the rest of the contributions which describe the considerable record of achievements in passive solar heating balcomb summarizes and evaluates the era between 1976 and 1983 when most of the major developments took place and highlights the design features that have contributed to effective buildings three chapters cover modeling passive systems applicable to both heating and cooling and six chapters focus on the application of passive solar heating with emphasis on components analytical results for specific systems test modules subsystem integration into buildings performance monitoring and results and design tools j douglas balcomb is a principal engineer with the solar energy research institute

Zero-carbon Homes

2013-04-15

housing is a major contributor to co2 emissions in europe and america today and the construction of new homes offers an opportunity to address this issue providing homes that achieve zero carbon carbon neutral zero net energy or energy plus standard is becoming the goal of more innovative house builders globally whilst energy providers seek to decarbonise
the energy supply to new and existing development various new technical systems for achieving these goals are beginning to emerge for example the passive house whose energy requirement for space heating and cooling is almost zero the smart grid that has revolutionized the management of energy whilst enabling the connection of small scale renewable energy producers and electric vehicles to the grid or the european super grid which will enable zero carbon energy to be generated in the sahara desert and stored in norway this book explores the diverse approaches that are being adopted around the world to deliver zero carbon homes and the different societal systems and geographic circumstances in which they have developed it postulates a roadmap for delivering zero carbon homes together with a toolbox approach for policy and practice to suit particular national and local circumstances a series of case studies are presented that offer lessons for delivering zero carbon homes these examples are also used to demonstrate how prototype systems can move into the mainstream the book highlights some of the instruments and mechanisms that could be used to support this transformation and addresses the wider implications of introducing these innovative systems in terms of industry lifestyle and urban form

Quarterly Report

1971

this comprehensive and up to date collection of data on the asian construction sector presents a unique guide to construction economics in the following countries australia china mainland china hong kong india indonesia japan korea malaysia

Energy efficiency in the Nordic building sector

2009

winner of an outstanding academic title award from choice magazine encyclopedia of environmental management gives a
comprehensive overview of environmental problems their sources their assessment and their solutions through in depth entries and a topical table of contents readers will quickly find answers to questions about specific pollution and management issues edited by the esteemed sven erik jørgensen and an advisory board of renowned specialists this four volume set shares insights from more than 500 contributors all experts in their fields the encyclopedia provides basic knowledge for an integrated and ecologically sound management system nearly 400 alphabetical entries cover everything from air soil and water pollution to agriculture energy global pollution toxic substances and general pollution problems using a topical table of contents readers can also search for entries according to the type of problem and the methodology this allows readers to see the overall picture at a glance and find answers to the core questions what is the pollution problem and what are its sources what is the big picture or what background knowledge do we need how can we diagnose the problem both qualitatively and quantitatively using monitoring and ecological models indicators and services how can we solve the problem with environmental technology ecotechnology cleaner technology and environmental legislation how do we address the problem as part of an integrated management strategy this accessible encyclopedia examines the entire spectrum of tools available for environmental management an indispensable resource it guides environmental managers to find the best possible solutions to the myriad pollution problems they face also available online this taylor francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options contact us to inquire about subscription options and print online combination packages us tel 1 888 318 2367 email e reference taylorandfrancis com international tel 44 0 20 7017 6062 email online sales tandf co uk

The Construction Sector in the Asian
Economies

2004-08

climate change human systems and policy is a component of encyclopedia of natural resources policy and management in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias the theme on climate change human systems and policy presented in three volumes deals with the interaction between climate and human systems for policy development these volumes discuss history status and prediction of global climate change potential large scale effects of global warming public perceptions toward global climate change effects of potential sea level rises economics of potential climate change response strategies for stabilization of atmospheric composition policy framework and systems management of global climate change these three volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy analysts managers and decision makers and ngos

Encyclopedia of Environmental Management, Four Volume Set

2012-12-13

what are the major housing problems in contemporary britain and how effective are the policies designed to tackle them since the second edition of understanding housing policy was published in 2011 political and financial circumstances have transformed the answers to these questions in this fully updated third edition brian lund both explores how these policies developed and were implemented under the uk coalition government and looks ahead to the possible revisions under the new conservative government integrating the previous edition with new discussions of such subjects as the austerity agenda following the credit crunch the impact of the coalition government s housing policies and new policy ideas lund offers keen insight into the pervasive impact of need demand and supply as applied to the housing market and
austerity policies

**Climate Change, Human Systems, and Policy - Volume III**

2009-03-25

semiannual with semiannual and annual indexes references to all scientific and technical literature coming from doe its laboratories energy centers and contractors includes all works deriving from doe other related government sponsored information and foreign nonnuclear information arranged under 39 categories e g biomedical sciences basic studies biomedical sciences applied studies health and safety and fusion energy entry gives bibliographical information and abstract corporate author subject report number indexes

**Solar Energy Update**

1979

the two volume reference work chemical technology and the environment provides readers with knowledge on contemporary issues in environmental pollution prevention and control as well as regulatory health and safety issues as related to chemical technology it introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry based on wiley's renowned kirk othmer encyclopedia of chemical technology this compact reference features the same breadth and quality of coverage and clarity of presentation found in the original

**Energy: a Continuing Bibliography with Indexes**

1976

this book addresses how forward thinking local communities are integrating pre college stem education stem pedagogy
industry clusters college programs and local state and national policies to improve educational experiences drive local development gain competitive advantage for the communities and lead students to rewarding careers this book consists of three sections foundational principles city regional case studies from across the globe and state and national context the authors explore the hypothesis that when pre college stem education is integrated with city and regional development regions can drive a virtuous cycle of education economic development and quality of life why should pre college stem education be included in regional technology policy when local leaders talk about regional policy they usually talk about how government universities and industry should work together this relationship is important but what about the hundreds of millions of pre college students taught by tens of millions of teachers supported by hundreds of thousands of volunteers who deliver stem education around the world leaders in the communities featured in stem in the technopolis have recognized the need to prepare students at an early age and the power of real world connections in the process the authors advocate for this approach to be expanded they describe how stem pedagogy priority industry clusters cross sector collaboration and the local incarnations of global development challenges can be made to work together for the good of all citizens in local communities this book will be of interest to government policymakers school administrators industry executives and non profit executives the book will be useful as a reference to teachers professors industry professional volunteers non profit staff and program leaders who are developing running or teaching in stem programs or working to improve quality of life in their communities

Understanding Housing Policy

2017-04-26

in the first book of its kind this volume addresses the problem of the future cooling energy demand the global frame defining the actual and future cooling energy consumption in the building sector based on the explored inputs and forecasts a model was developed to predict the future cooling
energy consumption of both the residential and commercial sector low energy high performance technological solutions for cooling energy problem in the building and city level will be presented

**Energy Research Abstracts**

1993

several high quality scientific journals are published in the area of building energy and indoor outdoor environment however one has been missing advances in building energy research fills the gap i recommend aber to all technical libraries research institutes and universities it should also be used by construction companies and those manufacturing building materials and building products professor olli sepp nen president of rehva federation of heating and air conditioning associations advances in building energy research is a unique index it will be an inexhaustible resource for energy related sciences and a continuous inspiration for architects around the world n fintikakis architect and director of uia ares wp architecture and renewable energy sources the collection of articles provides an encyclopaedic overview of the state of the art of the subject and they are written clearly and concisely this volume is a must for researchers and advanced students professor edward ng department of architecture the chinese university of hong kong this is a very valuable first volume of a new series with each section written by leaders in their respective fields contributions cover a range of related topics and present evaluations of contemporary issues in building energy research that give the reader an immediate and clear insight dr adrian pitts senior lecturer in energy environment and sustainability university of sheffield advances in building energy research aber offers state of the art information on the environmental science and performance of buildings linking new technologies and methodologies with the latest research on systems simulations and standards as stringently reviewed as a journal but with the breadth of a book this annual volume brings together invited contributions from the foremost international experts on energy efficiency and environmental quality of buildings spanning a broad range
of technical subjects this is a must have reference on global developments in the field suitable for architects and building engineers environmental engineers industry professionals students teachers and researchers in building science technical libraries and laboratories this first volume covers double skin facades artificial intelligence in buildings indoor thermal comfort and the progress of the adaptive approach heat island research and the effect of urban microclimate the use of techniques such as high dynamic range imaging and satellite remote sensing and vital management and monitoring approaches such as post occupancy evaluation

*Kirk-Othmer Chemical Technology and the Environment, 2 Volume Set*

2007-05-21

issues for 1955 accompanied by supplement construction volume and costs 1915 1954

*STEM in the Technopolis: The Power of STEM Education in Regional Technology Policy*

2020-05-27

the cambridge yearbook of european legal studies provides a forum for the scrutiny of significant issues in european union law the law of the council of europe and comparative law with a european dimension particularly those issues which have come to the fore during the year preceding publication the chapters presented are all at the cutting edge of the fields which they address and reflect the views of recognised experts drawn from the university world legal practice and the civil services of both the eu and its member states inclusion of the comparative dimension brings a fresh perspective to the study of european law and highlights the effects of globalisation of the law more generally and the resulting cross fertilisation of norms and ideas that has
occurred among previously sovereign and separate legal orders
the cambridge yearbook of european legal studies is an
invaluable resource for those wishing to keep pace with legal
developments in the fast moving world of european integration
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johnston claire kilpatrick okeoghene odudu john spencer
founding editors alan dashwood and angela ward

Cooling Energy Solutions for Buildings and Cities

2019

the 28th eg ice international workshop 2021 brings together
international experts working at the interface between
advanced computing and modern engineering challenges many
engineering tasks require open world resolutions to support
multi actor collaboration coping with approximate models
providing effective engineer computer interaction search in
multi dimensional solution spaces accommodating uncertainty
including specialist domain knowledge performing sensor data
interpretation and dealing with incomplete knowledge while
results from computer science provide much initial support
for resolution adaptation is unavoidable and most importantly
feedback from addressing engineering challenges drives
fundamental computer science research competence and
knowledge transfer goes both ways der 28 internationale eg
ice workshop 2021 bringt internationale experten zusammen die
an der schnittstelle zwischen fortgeschrittener
datenverarbeitung und modernen technischen herausforderungen
arbeiten viele ingenieurwissenschaftliche aufgaben erfordern
open world resolutionen um die zusammenarbeit mehrerer
akteure zu unterstützen mit approximativen modellen umzugehen

![Image](https://via.placeholder.com/150)

... eine effektive interaktion zwischen ingenieur und computer zu ermöglichen in mehrdimensionalen lösungsräumen zu suchen
unsicherheiten zu berücksichtigen einschließlich
fachspezifischen domänenwissens sensorindateiinterpretation
durchzuführen und mit unvollständigem wissen umzugehen
während die ergebnisse aus der informatik anfänglich viel
unterstützung für die lösung bieten ist eine anpassung
unvermeidlich und am wichtigsten ist dass das feedback aus
der bewältigung technischer herausforderungen die computer
wissenschaftliche grundlagenforschung vorantreibt kompetenz
und wissenstransfer gehen in beide richtungen

**Advances in Building Energy Research**

2012-05-23

soviet central asia 1989 explores the economic development of
the four republics of central asia that suffered under moscow
s economic policies uzbekistan tajikistan turkmenistan and
kirghizia the soviet literary weekly literaturnaia gazeta
described soviet economic policies there as a tragic
experiment and this book argues that central asia serves as a
prime example of the failure of soviet regional development
policies it analyses the special role of the region in the
soviet economy and such key issues as industrial development
cotton production water resources and labour it also
addresses the social ramifications of the underdevelopment of
the region s economy and the impact of new policies under
gorbachev

**Construction Review**

1966

a number of countries have recently discovered and are
developing oil and gas reserves policy makers in such
countries are anxious to obtain the greatest benefits for
their economies from the extraction of these exhaustible
resources by designing appropriate policies to achieve
desired goals one important theme of such policies is the so
called local content created by the sector the extent to
which the output of the extractive industry sector generates further benefits to the economy beyond the direct contribution of its value added through its links to other sectors this paper provides a detailed description of the policy context objectives implementation tools and metrics used in a select group of petroleum producing countries including angola brazil indonesia kazakhstan malaysia and trinidad and tobago the information is further analyzed in the paper on local content in the oil and gas sector world bank studies washington d c 2013

Cambridge Yearbook of European Legal Studies, Vol 10, 2007-2008

2008-12-18

in his moving to sustainable buildings paths to adopt green innovations in developed countries umberto berardi explores the transition of the construction sector to sustainable building through the adoption of green innovations applying methods ranging from theoretical discussions to interviews and field studies berardi describes how organisational models among stakeholders are changing as the sector moves towards a green economy berardi s book should prove valuable to engineers architects environment researchers and policy makers alike as it successfully weaves together different aspects of green building to create a multidimensional matrix through which sustainable architecture can be understood umberto berardi an assistant professor at the worcester polytechnic institute ma usa teaches courses on sustainable construction architectural engineering systems and building physics he was awarded an msc from the politecnico di bari an msc from the university of southampton uk and a phd from the scuola interpolitecnica in italy his research areas are related to building acoustics sustainable constructions and energy saving technologies for buildings berardi is also a passionate pianist and a strong proponent of interdisciplinary cooperation between the arts and engineering
Economic Survey
1978

this book covers the whole range of marketing principles skills and knowledge that the modern construction manager from whatever discipline or profession within the industry requires to generate effective and profitable business while aimed primarily at students in the later years of degree diploma and professional courses it will also appeal to students in related disciplines and those following postgraduate and post qualification courses the approach underlines the importance of adopting a proactive attitude towards the marketing of a company s services in the construction industry it reflects the reality of the transformation that has taken place over the past twenty years where there has been a shift from a highly protected domestic industry to an unprotected global industry the already huge and increasing pool of expertise in the field means that there is much greater choice available to clients and and potential clients the choice of contractor is therefore going to be made increasingly on the basis of factors other than pure expertise therein lies the importance of marketing factors such as price quality value volume time client satisfaction and confidence all come into play and these are presented and differentiated through marketing the book covers all the principles of marketing including strategy marketing campaigns product and service price promotion access and research it also deals with client perceptions confidence expectations and understanding the critical question of operating in a fully globalised industry is also addressed

EG-ICE 2021 Workshop on Intelligent Computing in Engineering

2021-08-06

throughout the world there is an increasing interest in ecological design of buildings and natural ventilation has proved to be the most efficient low energy cooling technique
its practical application however is hindered by the lack of information on the complex relationship between the building and its urban environment in this book a team of experts provide first hand information and tools on the efficient use of natural ventilation in urban buildings key design principles are explained enabling readers to decide on the best solution for natural ventilation of buildings taking into account climate and urban context in the initial sketches architects need answers to open problems such as what kind of solution to adopt and how to modify existing strategies to exploit the potential of the site this book formalizes the multi criteria analysis of candidate solutions based on quantitative and qualitative estimation of the driving forces wind and buoyancy as well as of the barriers induced by the urban environment wind speed reduction noise and pollution and gives a methodology for optimal design of openings the book is accompanied by a free cd containing software for assessing the potential of a given site estimating wind speed and dimensioning the openings for natural ventilation the methodologies and tools are tested self contained and user friendly about the editors the editors cristian ghiaus and francis allard are affiliated with the university of la rochelle france the authors and reviewers combine expertise from universities research institutions and industry in belgium france great britain greece portugal and switzerland

Soviet Central Asia

2023-06-14

U.S. Industrial Outlook

1979

Local Content Policies in the Oil and Gas
Sector
2013

Human Settlements Sector Review: Union of Myanmar
1972

Review of Economic Conditions in Israel
2013-11-07

Moving to Sustainable Buildings:
1978

Energy Abstracts for Policy Analysis
2004

2005 Year Book Australia
1998-11-11

Construction Marketing
1985

Economic Faces of the Building Sector
2012-06-25
Natural Ventilation in the Urban Environment
1985

Economic Survey of Switzerland
1998

Document AIC-TN

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