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UK Wine 2002-07-01

this review describes the changes in the industry over the last 5 years concentrating on the screw extrusion process where the extruded product has a constant cross section film and sheet production and pultrusion are not included in this review products and applications are reviewed in detail and major advances such as computer control materials and speed and size issues are also covered an additional indexed section containing several hundred abstracts from the rapra polymer library database provides useful references for further reading

Energy Research Abstracts 1994-04

the second edition of this authoritative textbook equips students with the tools they will need to tackle the challenges of sustainable building design and engineering the book looks at how to design engineer and monitor energy efficient buildings how to adapt buildings to climate change and how to make buildings healthy comfortable and secure new material for this edition includes sections on environmental masterplanning renewable technologies retrofitting passive house design thermal comfort and indoor air quality with chapters and case studies from a range of international interdisciplinary authors the book is essential reading for students and professionals in building engineering environmental design construction and architecture

Plastics Profile Extrusion 1998

first published in 2008 routledge is an imprint of taylor francis an informa company

A Handbook of Sustainable Building Design and Engineering 2018-10-30

an updated and fully revised new edition of this successful guide to consumer rights of particular importance are the revisions of the law since 1997 and the introduction of european legislation which effects uk residents suitable for the professional student or layperson this is an ideal introduction that will enable readers to understand the law the role of consumer groups and in the process become more aware of their rights and obligations as consumers

Faber & Kell's Heating & Air-conditioning of Buildings 2008-02-29

the building performance evaluation bpe framework emphasizes an evaluative stance throughout the six phases of the building delivery and life cycle 1 strategic planning needs analysis 2 program review 3 design review 4 post construction evaluation review 5 post occupancy evaluation and 6 facilities management review adaptive reuse the lessons learned from positive and negative building performance are fed into future building delivery cycles the case studies illustrate how this basic methodology has been adapted to a range of cultural contexts and indicates the positive results of building performance

assessment in a wide range of situations

A Straightforward Guide to the Rights of the Consumer 2001-12-10

landmarks for sustainability is a high impact quick reference guide to many of the most critical events and initiatives that have shaped our world and the sustainable development agenda over the past 20 years and more these include high profile historic events such as the Exxon Valdez oil spill the Rio Earth Summit the anti globalisation protests in Seattle and Genoa and the collapse of Enron as well as more subtle but no less important developments such as trends in fairtrade ethical codes and sustainable investment by shining a spotlight on these and other landmark events and initiatives the book draws into sharp relief the most significant social and environmental challenges of our time from climate change and the state of the planet to poverty and corruption equally importantly however more than half of the book is dedicated to constructive global responses such as the boom in clean technology the role of the World Economic and World Social Forums and the growth of ISO 14001 and SA8000 standards each of the 20 chapters follows a similar easy access full colour design with inspiring quotations compelling photographs a timeline of associated events a narrative description of trends and spotlight features of specific initiatives or events including charts factboxes and suggestions for further reading and websites also included is the world's most comprehensive sustainability timeline listing and dating 190 key sustainability related events and initiatives that occurred between 1919 and 2008 all these features combine to make the book an essential and highly accessible resource for managers teachers students government officials consultants and activists alike for the first time these crucial change agents will have a single source reference book which is not only packed with useful facts and figures but is also fascinating to look at and full of inspirational material

Assessing Building Performance 2006-08-11

the role and influence of building services engineers is undergoing rapid change and is pivotal to achieving low carbon buildings however textbooks in the field have largely focused on the detailed technicalities of HVAC systems often with little wider context this book addresses that need by embracing a contemporary understanding of energy efficiency imperatives together with a strategic approach to the key design issues impacting upon carbon performance in a concise manner the key conceptual design issues for planning the principal systems that influence energy efficiency are examined in detail in addition the following issues are addressed in turn background issues for sustainability and the design process developing a strategic approach to energy efficient design how to undertake load assessments system comparison and selection space planning for services post occupancy evaluation of completed building services in order to deliver sustainable buildings a new perspective is needed amongst building and services engineering designers from the outset of the conceptual design stage and throughout the whole design process in this book students and practitioners alike will find the ideal introduction to this new approach

Landmarks for Sustainability 2017-11-30

the foundations of good ux design lie in transparent navigation and interaction patterns and systems a solid understanding of the rules is as important as knowing when to break them how should you set up menus for optimal usability does mobile ux design follow different rules how can you use sound to make your website not just more appealing but also easier to navigate such questions should be factored into any decisions considering modern design since they tend to influence the level of user satisfaction table of contents the elements of navigation sticky menus are quicker to navigate design patterns when breaking the rules is ok exploration of single page websites redefining hick s law what designers can learn from video games a new mobile ux design material mission transition designing with audio what is sound good for

Building Services Design for Energy Efficient Buildings 2013-07-18

for over 70 years faber kells has been the definitive reference text in its field it provides an understanding of the principles of heating and air conditioning of buildings in a concise manner illustrating practical information with simple easy to use diagrams now in full colour this new look 11th edition has been reorganised for ease of use and includes fully updated chapters on sustainability and renewable energy sources as well as information on the new building regulations parts f and l as well as extensive updates to regulations and codes it now includes an introduction that explains the role of the building services engineer in the construction process its coverage of design calculations advice on using the latest technologies building management systems operation and maintenance makes this an essential reference for all building services professionals

Navigation & Interaction 2013

this book aims to provide a guide to members of design and masterplanning teams on how to deliver sustainable development and buildings cost effectively meeting current and emerging uk and international statutory and planning requirements the book sets out a clear and understandable strategy that deals with all aspects of sustainable design and construction and the implications for delivery costs saleability and long term operation the extensive scope includes all aspects of environmental social and economic sustainability including strategies to reduce carbon emissions and the impact of climate change

Faber & Kell's Heating and Air-Conditioning of Buildings 2014-11-27

explores the relationship between the refurbishment of existing buildings facility management and the wider community infrastructure

Integrated Sustainable Design of Buildings 2012-10-12

this book brings together a group of international specialists to explore the current state of the art and future potential for encouraging developing and implementing smart and sustainable built environment strategies it covers a broad spectrum of issues ranging from technological advancement through the assessment of past experiences to communication and education requirements and future strategies provides a snapshot of current methods and technologies for developing smart and sustainable built environment strategies over 30 fully refereed chapters from international experts addresses the particular requirements and problems of difference areas and climatic regions

Sustainable Retrofit and Facilities Management 2013

fiberglass and glass technology energy friendly compositions and applications provides a detailed overview of fiber float and container glass technology with special emphasis on energy and environmentally friendly compositions applications and manufacturing practices which have recently become available and continue to emerge energy friendly compositions are variants of incumbent fiberglass and glass compositions that are obtained by the reformulation of incumbent compositions to reduce the viscosity and thereby the energy demand environmentally friendly compositions are variants of incumbent fiber float and container glass compositions that are obtained by the reformulation of incumbent compositions to reduce environmentally harmful emissions from their melts energy and environmentally friendly compositions are expected to become a key factor in the future for the fiberglass and glass industries this book consists of two complementary sections continuous glass fiber technology and soda lime silica glass technology important topics covered include o commercial and experimental compositions and products o design of energy and environmentally friendly compositions o emerging glass melting technologies including plasma melting o fiberglass composite design and engineering o emerging fiberglass applications and markets fiberglass and glass technology energy friendly compositions and applications is written for researchers and engineers seeking a modern understanding of glass technology and the development of future products that are more energy and environmentally friendly than current products

Smart and Sustainable Built Environments 2008-04-15

the 15th passive and low energy architecture plea conference considered the issues of sustainability and environmental friendliness at the city scale some 150 papers address the many and varied questions faced by architects and planners in reducing the impact on the environment of cities and their buildings

Fiberglass and Glass Technology 2009-11-27

as concern for the environment rises companies must take more account of the external costs of logistics associated mainly with climate change air pollution noise vibration and accidents green logistics analyzes the environmental consequences of logistics and how to deal with them written by a leading team of logistics academics the book examines ways of reducing these

externalities and achieving a more sustainable balance between economic environmental and social objectives it examines key areas in this important subject including carbon auditing of supply chains transferring freight to greener transport modes reducing the environmental impact of warehousing improving fuel efficiency in freight transport reverse logistics for the management of waste the new edition is completely updated throughout with new methodologies and case studies to illustrate the impact of green logistics in practice

Statistical News 1998

thermofluid modeling for sustainable energy applications provides a collection of the most recent cutting edge developments in the application of fluid mechanics modeling to energy systems and energy efficient technology each chapter introduces relevant theories alongside detailed real life case studies that demonstrate the value of thermofluid modeling and simulation as an integral part of the engineering process research problems and modeling solutions across a range of energy efficiency scenarios are presented by experts helping users build a sustainable engineering knowledge base the text offers novel examples of the use of computation fluid dynamics in relation to hot topics including passive air cooling and thermal storage it is a valuable resource for academics engineers and students undertaking research in thermal engineering includes contributions from experts in energy efficiency modeling across a range of engineering fields places thermofluid modeling and simulation at the center of engineering design and development with theory supported by detailed real life case studies features hot topics in energy and sustainability engineering including thermal storage and passive air cooling provides a valuable resource for academics engineers and students undertaking research in thermal engineering

Environmentally Friendly Cities 2014-11-19

we regularly find ourselves in food environments that promote the consumption of high fat and sugary foods rather than encouraging us to eat more fruit and vegetables however because of increased media attention people are becoming more interested in alternative approaches to improving the many food related decisions we make daily transforming food environments features evidence from several disciplines exploring initiatives that have improved food environments and discusses the importance of achieving success in equitable and sustainable ways the book presents information on diverse food environments followed by methods that help readers become aware of the design of interventions and food policies it covers food environments in schools workplaces and community centres as well as fast food establishments and food marketing the book presents methods to help encourage better food choices and purchase of healthier foods it explores persuasion tactics used by health professionals such as changing availability and or price using nudging techniques and food labelling led by editor charlotte evans associate professor of nutritional epidemiology and public health nutrition at the university of leeds and written by an international range of authors from countries including the us canada australia new zealand japan and the united kingdom this multidisciplinary book appeals to students researchers public health professionals and policy makers it also raises awareness and provides a comprehensive treatment of the importance of our environments on food choice

Green Logistics 2012-12-03

recent decades have witnessed the rise of social and environmental certification programs that are intended to promote responsible business practices consumers now encounter organic or fair trade labels on a variety of products implying such desirable benefits as improved environmental conditions or more equitable market transactions but what do we know about the origins and development of the organizations behind these labels this book examines forest coffee and fishery certification programs to reveal how the early decisions of programs on governance and standards affect the path along which individual programs evolve and the variety and number of programs across sectors

Thermofluid Modeling for Energy Efficiency Applications 2015-09-01

energy performance feedback is an essential tool in addressing the current climate crisis however this is not simply another theoretical text about energy performance in buildings this book is for anyone who wants to better understand how energy is used in buildings and how to drive down operational energy use whether you re an architect student client building services engineer contractor building operator or other stakeholder focusing on evidence from feedback on buildings in use it explains what it takes to get them to perform as expected as well as the reasons why they often fail energy people buildings draws extensively on the findings of studies uk government funded building performance evaluations and on original research into seven case studies from across the uk and abroad that have achieved exemplary energy use through building performance feedback providing a clear roadmap to understanding aspects that impact building users comfort and satisfaction it also outlines the factors behind energy use and how to track it across the life of a project to ensure that your building performs as intended case studies include the everyman theatre liverpool rocky mountain institute innovation center colorado and carrowbreck meadow norwich featured architects ahmm ahr architype hamson barron smith haworth tompkins henning larsen architects and zgf architects

Transforming Food Environments 2022-03-22

the climate change levy package is the second biggest element in the uk climate change programme and savings appear to have been significant but were strongly front end loaded and have eased off since soon after its introduction the levy will reduce annual uk co2 emissions by 12.8 million tonnes by 2010 but these savings have come mainly from the effect its announcement had on raising awareness of the potential for energy savings and most of these savings were the result of actions taken before the tax actually came into operation the levy itself has had relatively little effect on business emissions especially in the case of smes and large but non energy intensive organisations the government believes that climate change agreements ccas will reduce annual co2 emissions by an additional 7 million tonnes by 2010 complying with ccas has galvanised business interest in finding energy savings and that key to this has been the incentive of the tax discount they offer the exemptions on the climate change levy for green electricity and combined heat and power have had minimal effect on the construction of new renewables and chp capacity essentially because they are worth too little money the ccl package does not impose a damaging economic burden on uk business overall and is encouraging greater resource productivity and stimulating energy efficient industries the ccl has not

worked quite as expected instead of rationally seeking to reduce their costs through increased energy efficiency businesses appear to have needed an extra stimulus to change their approach to energy use this has profound implications for climate change policy more widely if even large companies require additional policies to drive behavioural change this must be all the more true for small businesses public bodies and private households

Constructing Private Governance 2014-01-01

this new edition of a guide to energy management in buildings begins by asking why we need to control energy use in buildings and proceeds to discuss how the energy consumption of a building can be assessed or estimated through an energy audit it then details a range of interventions to reduce energy use and outlines methods of assessing the cost effectiveness of such measures topics covered include where and how energy is used in buildings energy audits measuring and monitoring energy use techniques for reducing energy use in buildings legislative issues and new in this edition the cooling of buildings fuel costs and smart metering and education and professional recognition it provides a template for instigating the energy management process within an organization as well as guidance on management issues such as employee motivation and gives practical details on how to carry the process through this book should appeal to building and facilities managers and also to students of energy management modules in fe and he courses

Energy, People, Buildings 2021-03-04

energy services fundamentals and financing first volume of the energy services and management series provides a global view of energy services schemes and practices the book discusses the role of energy services within the larger energy landscape and explores key technical aspects of energy systems for power heating and cooling including renewable energy systems and combined heat and power the book analyzes energy efficiency in several electrical devices such as motors lighting and vehicles it then examines actual energy services business models and policy before presenting a quick reference section that includes key models and calculations provides an innovative approach to the fundamental aspects related with energy services including technology implementation and financial schemes discusses tools to measure process efficiency and sustainability in power and heating applications includes case studies models and calculations both technical and financial as well as downloadable data for simulation and modeling

Reducing carbon emissions from UK business 2008-03-10

this multi disciplinary book presents the most recent advances in exergy energy and environmental issues volume 1 focuses on fundamentals in the field and covers current problems future needs and prospects in the area of energy and environment from researchers worldwide based on selected lectures from the seventh international exergy energy and environmental symposium iees7 2015 and complemented by further invited contributions this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in energetic efficiency included are

fundamental and historical coverage of the green transportation and sustainable mobility sectors especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles furthermore contributions on renewable and sustainable energy sources strategies for energy production and the carbon free society constitute an important part of this book exergy for better environment and sustainability volume 1 will appeal to researchers students and professionals within engineering and the renewable energy fields

A Guide to Energy Management in Buildings 2016-11-29

this fully updated and expanded third edition is a reference guide on nutrition and its clinical implications for health and disease through the life cycle the book endeavors to address the needs of those who would most benefit from up to date information on recent advances in the field of nutrition written by experts in the field chapters cover a diverse range of nutritional areas that present a succinct overview of recent thinking and discoveries that have the greatest capacity to aid physicians and other healthcare professionals in improving the nutritional health of their clients the text is divided into eight parts part one and two address the nutrient requirements and special nutrition related issues for people across all stages of the lifespan from pregnancy and infancy through the adolescent years to the older adult years part three summarizes the role of nutrition in the prevention and management of chronic conditions frequently seen in clinical practice including obesity diabetes bone disorders coronary heart disease hypertension and cancer part four describes different dietary patterns the mediterranean diet the dash diet the vegetarian diet and the ketogenic diet part five describes nutrition challenges specific to surgery and several different acute diseases and disorders gastrointestinal disorders food allergy and intolerance diseases of the liver and pancreas kidney disease eating disorders bariatric surgery sarcopenia and drug interactions with food part six looks at different aspects of the diet coffee tea dietary fat dietary sugars energy drinks alcohol dietary fiber vitamins minerals and the gut microbiome part seven examines a range of factors that influence dietary health decisions creating nutritional behavior change methods for assessing nutritional status dietary reference intakes an overview of the diet and food guides food labels and sources of nutrients finally part eight looks at dietary supplements including the problem of dishonest marketing and false and misleading information in the area of nutrition the growing nutritional impact of covid 19 is discussed throughout the book where appropriate nutrition guide for physicians and related healthcare professions third edition serves as a comprehensive guide that is organized by age lifespan nutrition therapy in relation to chronic disease and covid diet and its role in prevention dietary requirements and recommendations and influencing health decisions for the patient it is a valuable resource of practical and easy to access information on nutrition for physicians nurses pharmacists and others in their daily practice

Energy Services Fundamentals and Financing 2020-10-30

defining and reducing the carbon footprint of a new or refurbished building can be a daunting task there are lots of tools to measure the environmental impact of buildings but they all measure energy and co2 in different ways and they do not measure the whole carbon footprint what colour is your building provides practical and pragmatic guidance on how to calculate and then compare the whole carbon footprint of buildings using one simple method looking at operating embodied and transport energy it

will equip designers building owners occupiers planners and policy makers with the tools and knowledge that they will need to make decisions early on about where the big impacts will be in terms of reducing the carbon footprint of the building including a new simple approach to understanding the whole carbon impact of buildings benchmarking data for operating energy performance a clear transparent method of separating landlord energy performance from tenant energy performance simple diagrams and numbers to put renewable energy into perspective

Exergy for A Better Environment and Improved Sustainability 1 2018-08-04

find practical solutions to civil engineering design and cost management problems a guide to successfully designing estimating and scheduling a civil engineering project integrated design and cost management for civil engineers shows how practicing professionals can design fit for use solutions within established time frames and reliable budgets this text combines technical compliance with practical solutions in relation to cost planning estimating time and cost control it incorporates solutions that are technically sound as well as cost effective and time efficient it focuses on the integration of design and construction based on solid engineering foundations contained within a code of ethics and navigates engineers through the complete process of project design pricing and tendering well illustrated the book uses cases studies to illustrate principles and processes although they center on australasia and southeast asia the principles are internationally relevant the material details procedures that emphasize the correct quantification and planning of works resulting in reliable cost and time predictions it also works toward minimizing the risk of losing business through cost blowouts or losing profits through underestimation this text details the quest for practical solutions that are cost effective can be completed within a reasonable timeline conform to relevant quality controls are framed within appropriate contract documents satisfy ethical professional procedures and address the client s brief through a structured approach to integrated design and cost management designed to help civil engineers develop and apply a multitude of skill bases integrated design and cost management for civil engineers can aid them in maintaining relevancy in appropriate design justifications guide work tasks control costs and structure project timelines the book is an ideal link between a civil engineering course and practice

Nutrition Guide for Physicians and Related Healthcare Professions 2022-01-03

written and edited by a team of specialists at max fordham llp one of the uk s leading environmental and building services engineering consultancies environmental design is the result of their extensive experience in designing environmentally friendly buildings the principles of their approach which they have taught in numerous schools of architecture and engineering are clearly presented here the book starts with some basic scientific principles and environmental issues and then moves on to site planning energy use materials and building form natural ventilation systems high efficiency mechanical equipment and alternative energy sources are also covered state of the art buildings of exceptional quality are incorporated throughout the text and illustrate the authors belief that environmentally responsible architecture can be visually exciting they conclude with a selection of detailed case studies of award winning projects including new for this third edition beaufort court king s langley and the national trust headquarters swindon this book is essential reading for architects engineers planners and students of these disciplines

What Colour is your Building? 2019-07-25

this book advocates a more thoughtful approach to urban water management the approach involves reducing water consumption harvesting rainwater recycling rainwater and adopting sustainable drainage systems suds where surface water is not sent straight to drains but is intercepted by features like green roofs rain gardens swales and ponds cities in particular need to change the existing linear model of water consumption and use to a more circular one in order to survive the water sensitive city brings together the various specialised technical discussions that have been continuing for some time into a volume that is more accessible to designers engineers and architects urban planners and managers and policymakers

Integrated Design and Cost Management for Civil Engineers 2014-08-13

with more and more concern being expressed over the earth's dwindling energy resources as well as rising pollution levels the subject of energy management and conservation is becoming increasingly important over half of all energy consumed is used in buildings so effective management of buildings whether commercial or domestic is vital this book is a comprehensive text dealing with the theory and practice of the supply of energy to consumers energy management and auditing and energy saving technology it will be a core text on courses on energy management and building services as well as updating professionals in the building sector

Learning from Experiences with Energy Efficient HVAC Systems in Office Buildings 1995

industrial energy systems channel fuels and power into a variety of energy types such as steam direct heat hot fluids and gases and shaft power for compressors fans pumps and other machine driven equipment all of these processes impact the environment and are impacted by external energy and environmental policies and regulations therefore many environmental management issues are closely related to energy use and efficiency applied industrial energy and environmental management provides a comprehensive and application oriented approach to the technical and managerial challenges of efficient energy performance in industrial plants written by leading practitioners in the field with extensive experience of working with development banks international aid organizations and multinational companies the authors are able to offer real case studies as a basis to their method the book is divided into three main parts part one describes energy and environmental management systems eems in current use and management techniques for energy and environmental performance improvement part two focuses on the engineering aspects of industrial energy management describing main industrial energy systems and how to analyse and improve their energy performance part three is the toolbox on an accompanying website which contains data analytical methods and questionnaires as well as software programs to support the practical application of the methods elaborated on in the first two parts of the book this book will be a valuable resource to practising energy and environmental management engineers plant managers and consultants in the energy and manufacturing industries it will also be of interest to graduate engineering and science students taking courses in industrial energy and environmental management

Environmental Design 2006-06-07

this book covers new advances in materials and methods particularly orientated towards the optimization of energy expenditure required for the preparation of aggregates bituminous binders and bituminous mixtures and the implications which arise with regard to the european specifications and codes of practice

The Water Sensitive City 2016-02-22

this book is the long awaited guide for anyone interested in renewables at home or work it sweeps away scores of common misconceptions while clearly illustrating the best in renewable and energy efficiency technologies a fully illustrated guide to renewable energy for the home and small business the book provides an expert overview of precisely which sustainable energy technologies are appropriate for wide spread domestic and small business application the sections on different renewable energy options provide detailed descriptions of each technology along with case studies installation diagrams and colour photographs showing precisely what is possible for the average household the chapter on how to select the renewable technology most appropriate for ordinary homes and businesses summarizes this analysis in a neat and easy to use table and demonstrates with examples exactly how to assess your local renewable resources renewable technologies covered include wood energy wind power solar photovoltaics solar thermal passive solar geothermal and air to air heat pumps as well as water or hydro based energy systems plus the all important subject of energy efficiency whilst written to be accessible to a wide audience the book is targeted at readers who are keen to work with renewable technologies students building engineers architects planners householders and home owners

Energy: Management, Supply and Conservation 2012-06-25

while there are many historical examples of successful naturally ventilated buildings standards for indoor climate have tended to emphasise active mechanical airflow systems rather than passive natural systems despite its importance knowledge about the performance of naturally ventilated buildings has remained comparatively sparse with ten key research papers this book seeks to address this lack of information

Consumer's Guide to the British Social Services 1971

healthcare engineering latest developments and applications focuses on building design and management environmental issues including energy consumption and emission plus air quality and infection control in patient areas providing an insight into the solutions offered by new technologies and systems to building management challenges healthcare engineering latest developments and applications identifies ideas for improved design and layout of hospitals and equipment as well as practical advice on how to control energy consumption and updates on the latest research into hospital acquired infection this volume gives detailed analysis of hygiene control in operating theatres an up to date text essential for the study of healthcare engineering

Applied Industrial Energy and Environmental Management 2008-10-13

Performance and Durability of Bituminous Materials 1995-11-09

Renewable Energy Systems 2013-05-07

Naturally Ventilated Buildings 2002-11

Healthcare Engineering - Latest Developments and Applications 2004-01-26

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