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Intelligent Buildings Derek Clements-Croome 2004 Intelligent buildings provide stimulating environments for people to work and live in. This book brings together a body of the latest knowledge about design, management, technology and sustainability set against the background of developments in the cultural landscapes, which affect those living and working in buildings.

The Environmental Performance of Tall Buildings Joana Carla Soares Goncalves 2010-09-23 Tall buildings represent one of the most energy-intensive architectural typologies, while at the same time offering the high density work and living conditions that many believe will an important constituent of future sustainable communities. How, then, can their environmental impact be lessened? This insightful book takes in: an overview of the tall building and its impacts (looking at cityscape, place, mobility, microclimate, energy and economics) design principles and the development of the sustainable tall building global perspectives (covering North and South America, Europe, the Middle East and Asia) detailed, qualitative case studies of buildings in design and operation the future for sustainable tall buildings. Not simply another showcase for future utopian designs and ideals, the information presented here is based on hard research from operating buildings. Highly illustrated and combining analysis with solid detail for practice, this is essential reading for architects, building engineers, design consultants, retrofitters and urban planners interested in or working with tall buildings, and researchers/students in these disciplines.

The Architects' Journal 2003

Metric Handbook David Littlefield 2012-09-10 "An essential reference resource for any architect or architect student, the Metric Handbook is the major handbook for planning and design data. For each building type, the book gives basic design requirements, principal dimensional data and details of relevant building regulations. The book also contains information on broader aspects of design applicable to all building types, such as materials, acoustics and lighting, and data on human dimensions and space requirements. Significantly updated, the new edition of this work focuses on sustainable design practice to make projects competitive within a green market. As well as a full revision, including additional new building types and the latest updates to regulation and practice, the book features an improved new layout with color images and text to make it easier to find vital information quickly. Metric Handbook is a tried and tested, authoritative reference for solving everyday planning problems - it is a must have for every design office desk and drawing board"-

Starting a Practice Simon Foxell 2019-07-26 The second edition of the popular Starting a Practice: A Plan of Work is a fully revised and updated guide to planning, setting up and running your architectural practice. Mapped to the RIBA Plan of Work 2013, it approaches starting a business as if it were a design project complete with briefing, sketch layouts and delivery. Comprehensive, accessible and easy to use, Starting a Practice provides essential guidance on the many issues involved in establishing a successful business, including preparing a business plan, choosing the right company structure, seeking advice, monitoring finances, getting noticed and securing work; and much more. The book is full of practical advice gained from the author's 30 years in practice but is aimed at starting up now, in the second decade of the 21st century, with its particular challenges and opportunities. It is invaluable reading for Part 3 students, young practitioners and those considering starting up on their own or wanting to consolidate an existing business.

Better Places to Work Great Britain. Commission for Architecture and the Built Environment 2005 Better Places to Work is concerned with those elements of the design and development of workplaces that the planning system can influence. It explores issues around location, the public realm, architecture and linkages. It is based on the principle that well-designed, accessible and pleasant living and working environments are one of the key requirements for creating sustainable communities as set out in The Sustainable Communities Plan "Building for the Future".

The authors believe that it is important to get new development right, given the growth of the employment sector and that poor planning and design risk a return to some of the mistakes made in the past. Better Places to Work demonstrates that badly located and designed places of work are not only bad for the wider environment; they are also bad for business. Evidence collated by and for CABE shows that well planned workplaces are good for business productivity and efficiency, good for recruitment, retention and employee satisfaction and good for the balance sheet - they are much more cost effective over the lifetime of the building. It focuses on ten exemplar developments from around England and uses case studies to offer guidance to all those involved in all stages of the development process. This includes designers and developers, local planning authorities, property agents and all those who occupy business premises. As a challenge and inspiration to everybody within the development industry, this guide draws on lessons of success stories to show how the planning for our workplaces can be improved for the benefit of all involved.

Resident Engineer's Management Guide 1990

Manual do Arquiteto - 5ED Pamela Buxton 2017-02-01 Ponto de partida ideal para qualquer projeto de arquitetura, este livro trata de aspectos específicos do projeto, como materiais, acústica e iluminação, de dados gerais de projeto sobre as dimensões humanas (ergonomia e ergometria) e de necessidades espaciais. A obra fornece as exigências básicas para projetos considerando as mudanças de comportamento, climáticas e necessidades da sociedade, como projetar para áreas sujeitas a enchentes, inclusão de práticas de projeto sustentável, etc.

Green Buildings Pay Brian W. Edwards 2013-08-22 This third edition of Green Buildings Pay presents new evidence and new arguments concerning the institutional and business case that can be made for green design. The green argument has moved a long way forward since the previous edition, and this fully updated book addresses the key issues faced by architect, engineer and client today. Green Buildings Pay: Design, Productivity and Ecology examines, through a range of detailed case studies, how different approaches to green design can produce more sustainable patterns of development. These cases are examined from three main perspectives: that of the architect, the client and the user. Completely revised with all new chapters, cases, sections and introductory material the third edition presents: over 20 new researched case studies drawn from the UK, Europe and the USA, written in collaboration with the architects, engineers, clients and user groups examples of office and educational buildings of high sustainable and high architectural quality an exploration of the architectural innovations that have been driven by environmental thinking, such as the new approaches to the design of building facades, roofs, and atria cases which demonstrate current practice in the area of energy/eco-retrofits of existing buildings documentation of the benefit impact assessment schemes such as LEED and BREEAM have had upon client expectations and on design approaches over the past decade beautiful full color illustrations throughout. In the fast evolving arena of green building, the book shows how architects are reshaping their practices to deal with ever more demanding energy standards and better informed users and corporate clients.

Metric Handbook Pamela Buxton 2015-03-05 Significantly updated in reference to the latest construction standards and evolving building types Many chapters revised including housing, transport, offices, libraries and hotels New chapter on flood-aware design Sustainable design integrated into chapters throughout Over 100,000 copies sold to successive generations of architects and designers - this book belongs in every design studio and architecture school library The Metric Handbook is the major handbook of planning and design information for architects and architecture students. Covering basic design data for all the major building types,

Office Buildings Pranab Kumar Nag 2018-12-31 This book brings together concepts from the building, environmental, behavioural and

health sciences to provide an interdisciplinary understanding of office and workplace design. Today, with changes in the world of work and the relentless surge in technology, offices have emerged as the repositories of organizational symbolism, denoted by the spatial design of offices, physical settings and the built environment (architecture, urban locale). Drawing on Euclidian geometry that quantifies space as the distance between two or more points, a body of knowledge on office buildings, the concept of office and office space, and the interrelationships of spatial and behavioural attributes in office design are elucidated. Building and office work-related illnesses, namely sick building syndrome and ailments arising from the indoor environment, and the menace of musculoskeletal disorders are the alarming manifestations that critically affect employee satisfaction, morale and work outcomes. With a focus on office ergonomics, the book brings the discussion on the fundamentals of work design, with emphasis on computer workstation users. Strategic guidance of lighting systems and visual performance in workplaces are directed for better application of ergonomics and improvement in office indoor environment. It discusses the profiles of bioclimatic, indoor air quality, ventilation intervention, lighting and acoustic characteristics in office buildings. Emphasis has been given to the energy performance of buildings, and contemporary perspectives of building sustainability, such as green office building assessment schemes, and national and international building-related standards and codes. Intended for students and professionals from ergonomics, architecture, interior design, as well as construction engineers, health care professionals, and office planners, the book brings a unified overview of the health, safety and environment issues associated with the design of office buildings.

Beyond the Workplace Zoo Nigel Oseland 2021-09-28 This book begins by outlining the common design mistakes with the modern open plan office and the industry focus on cost that has resulted in the ill-fated Workplace Zoo. The requirements of office-based workers according to psychological theory and research are then explained. Dr Oseland references historical studies in psychophysics to describe how to design environmental conditions (acoustics, lighting, temperature, indoor air quality) that enhance performance by supporting basic physiological needs. More contemporary research in environmental psychology investigates how cognition affects our interpretation and response to physical stimuli depending on personality, context, attitude and other personal factors. This in turn informs individual requirements for the environmental conditions as well as group needs. Studies in evolutionary psychology and biophilia are also referenced. The latter part of the book turns to workplace solutions and focuses on how to plan, design and manage offices to accommodate our innate human needs now and in the future. The importance of designing for inclusivity is also recognised, including accommodating cultural, gender and generational differences along with designing spaces for neurodiversity. Dr Oseland's proposed workplace solution the Landscaped Office is a revived and revised version of Bürolandschaft with a contemporary twist. The impact of workplace trends, such as agile working and hot-desking, is also explored and found to complement the workplace solution, resulting in the Agile Landscaped Office. This book is key reading for professionals, and post-graduate students, in business, interior design, architecture, surveying, facilities management, building services engineering, HR and organisational or environmental psychology.

What Colour is your Building? David Clark 2019-07-25 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.

Improving Energy Efficiency in Commercial Buildings and Smart Communities Paolo Bertoldi 2020-01-14 These proceedings present fourteen peer-reviewed papers from the 10th International Conference on Improving Energy Efficiency in Commercial Buildings and Smart

Communities, which was held March 21-22, 2018 in Frankfurt, Germany. This biannual conference aims to promote and diffuse the concept of energy efficiency in new and existing commercial buildings and to enlarge the market for low consumption and sustainable non-residential buildings. It also covers smart and sustainable districts, communities and cities, since energy systems efficiency and renewable energies are often optimized at the district or municipal level. The 2018 conference focused on advanced and innovative technologies to improve the energy efficiency of commercial buildings, communities and cities as well as the policies and measures by governments at various levels to improve energy efficiency. A particular focus was on Energy Service Companies (ESCOs). The conference addresses energy policy makers at international, national, and local level; academics, researchers and energy efficiency experts; ESCOs, utilities, buildings energy and environmental managers; buildings engineers and architects; and equipment manufacturers and commercial property investors.

Sustainable Retrofitting of Commercial Buildings Simon Burton 2014-10-03 Whilst sustainability is already an important driver in the new building sector, this book explores how those involved in refurbishment of commercial building are moving this agenda forward. It includes chapters by developers, surveyors, cost consultants, architects, building physicists and other players, on the role they each can play in enabling refurbishment to be commercially, environmentally and socially sustainable. Case studies from northern climates show real examples of different building types, ages and uses and will demonstrate what action has been taken to create more sustainable buildings. The chapters raise and discuss all the relevant issues that need to be considered in retrofitting decision making. Changing standards, planning, process management, financing, technical issues, site organisation, commissioning and subsequent building management are all considered. The book demonstrates that buildings can be made comfortable to occupy, easy to manage and low in energy demand and environmental impact.

The Structural Engineer 1997

Adaptive Architecture Wolfgang F. E. Preiser 2017-09-01 The constant in architecture's evolution is change. Adaptive Architecture explores structures, or environments that accommodate multiple functions at the same time, sequentially, or at periodically recurring events. It demonstrates how changing technological, economic, ecological and social conditions have altered the playing field for architecture from the design of single purpose structures to the design of interacting systems of synergistically interdependent, distributed buildings. Including contributors from the US, UK, Japan, Australia, Germany and South Africa, the essays are woven into a five-part framework which provides a broad and unique treatment of this important and timely issue.

The Tall Buildings Reference Book David Parker 2013-04-12 As the ever-changing skylines of cities all over the world show, tall buildings are an increasingly important solution to accommodating growth more sustainably in today's urban areas. Whether it is residential, a workplace or mixed use, the tower is both a statement of intent and the defining image for the new global city. The Tall Buildings Reference Book addresses all the issues of building tall, from the procurement stage through the design and construction process to new technologies and the building's contribution to the urban habitat. A case study section highlights the latest, the most innovative, the greenest and the most inspirational tall buildings being constructed today. A team of over fifty experts in all aspects of building tall have contributed to the making of the Tall Buildings Reference Book, creating an unparalleled source of information and inspiration for architects, engineers and developers.

Assessing Building Performance Wolfgang Preiser 2006-08-11 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.

Architectural Acoustics Ana M Jaramillo 2014-10-24 The application of good acoustic design can seem daunting to designers when trying to understand the often-complex physics of sound control. The ever-increasing number of standards and performance criteria that can be requested on new developments further complicates acoustics for

architects. Architectural Acoustics, part of the PocketArchitecture series, provides the fundamental theory and understanding of acoustics and applications of effective detailing for specific building types and conditions in an accessible and clear technical guide. The book provides: a compact and understandable introduction to the fundamentals of building and architectural acoustics definitions of suitable acoustic performance criteria for a wide range of common buildings and room types guidance on specification and detailing of the most suitable construction types in North America and the UK. This book is both, a handy rule of thumb on acoustics for anyone involved in the design or construction of buildings, as well as an essential addition to any architect's reference library.

Future Office Nicola Gillen 2019-07-15 The office is dead. Long live the office. Despite decades of predictions that the office is on the verge of extinction, it is surviving and thriving. Of course, things are changing. And changing fast. Digital technologies are transforming not only the work we do, but also the ways our workplaces are designed, built and operated. Automation and AI mean that some jobs will no longer exist whilst others will be created. But the very essence of the workplace — human interaction and collaboration, remains as necessary as ever. In fact, it is the human focus that is driving this new age, with four generations now in the workplace together for the first time. Taking an interdisciplinary approach, this book discusses the impacts of these changes on the future of work and workplace. The latest technologies are also explored from voice and digital twins, to new materials such as graphene and battery-powered buildings.

AJ Specification 2005-06

Infrastructures in Practice Elizabeth Shove 2018-09-28 Infrastructures in Practice shows how infrastructures and daily life shape each other. Power grids, roads and broadband make modern lifestyles possible – at the same time, their design and day-to-day operation depends on what people do at home and at work. This volume investigates the entanglement of supply and demand. It explains how standards and 'normal' ways of living have changed over time and how infrastructures have changed with them. Studies of grid expansion and disruption, heating systems, the internet, urban planning and office standards, smart meters and demand management reveal this dynamic interdependence. This is the first book to examine the interdependence between infrastructures and the practices of daily life. It offers an analysis of how new technologies, lifestyles and standards become normalised and fall out of use. It brings together diverse disciplines – history, sociology, science studies – to develop social theories and accounts of how infrastructures and practices constitute each other at different scales and over time. It shows how networks and demands are steered and shaped, and how social and political visions are woven into infrastructures, past, present and future. Original, wide-ranging and theoretically informed, this book puts the many practices of daily life back into the study of infrastructures. The result is a fresh understanding of how resource-intensive forms of consumption and energy demand have come about and what is needed to move towards a more sustainable lower carbon future.

Faber & Kell's Heating and Air-Conditioning of Buildings Doug Oughton 2014-11-27 For over 70 years, Faber & Kell's 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 re-organised 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.

Total Facility Management Brian Atkin 2021-04-06 TOTAL FACILITY MANAGEMENT A comprehensive review of what facility management means to owners, operators, occupiers, facility managers and professional advisors The newly revised Fifth Edition of Total Facility Management is an accessible and practical text that shows readers how the concept and principles of facility management can be implemented in practice. The book deals with the most common and intractable challenges facing professionals, academics and students in the field and provides practical solutions with the means to implement them. The new edition includes a greater focus on applicable ISO standards in facility

management as well as maintaining an international perspective throughout. The book contains easy-to-access advice on how facilities can be better managed from a range of perspectives, and the subjects covered provide a comprehensive treatment of facility management. Readers will benefit from the inclusion of: A thorough introduction to the fundamentals of facility management, including key roles, responsibilities and accountabilities and the core competencies of facility management An exploration of facility planning, facility management strategy, outsourcing, procurement, facility management organization, facility maintenance management and business continuity and recovery planning An examination of human resources management, well-being, workplace productivity, performance management health, safety, security and the environment A review of sustainable practices, change management, facility management systems, information management (including building information models and digital twins) and innovative technology. The book is the perfect choice for undergraduate and graduate studies in facility management, construction management, project management, surveying and other AEC disciplines. Total Facility Management will also earn a place on the desk of practicing facility managers, as well as in the libraries of academics and researchers whose work requires them to understand the theory and practice of facility management.

Sustainability in Energy and Buildings John Littlewood 2019-10-26

This volume contains the proceedings of the 11th KES International Conference on Sustainability and Energy in Buildings 2019 (SEB19) held in Budapest, 4th -5th July 2019 organised by KES International in partnership with Cardiff Metropolitan University, Wales, UK. SEB-19 invited contributions on a range of topics related to sustainable buildings and explored innovative themes regarding sustainable energy systems. The aim of the conference was to bring together researchers, and government and industry professionals to discuss the future of energy in buildings, neighbourhoods and cities from a theoretical, practical, implementation and simulation perspective. The conference formed an exciting chance to present, interact, and learn about the latest research and practical developments on the subject. The conference attracted submissions from around the world. Submissions for the Full-Paper Track were subjected to a blind peer-review process. Only the best of these were selected for presentation at the conference and publication in these proceedings. It is intended that this volume provides a useful and informative snapshot of recent research developments in the important and vibrant area of Sustainability in Energy and Buildings.

A Carbon Primer for the Built Environment Simon Foxell 2014-01-03

In a world increasingly concerned about the impact of carbon dioxide and other greenhouse gases in the atmosphere on global climate, the A Carbon Primer for the Built Environment will provide an understanding of the science and the public policy and regulation intended to tackle climate change. It will spell out the essential information needed for navigating through the growing regulatory maze with confidence. The book will: Provide an explanation of climate change, why carbon has been targeted as the main culprit and how this will impact the working lives of architects Explain key concepts such as: carbon footprinting, contraction & convergence, concentration based targets, the Energy Performance of Buildings Directive, decarbonising supply and reducing energy demand as well as the relevance of relevant government targets and international agreements Suggest an overall framework for achieving the carbon reduction targets and the requirements that will place on building designers Outline requirements and common standards and codes – providing guidance on compliance mechanisms Suggest and examine likely models for future practice The book will be essential reading for anyone wanting to familiarise themselves with the new landscape of carbon reduction in the built environment, with a particular focus on building design. It will also provide an accessible reference volume for information on particular policies, terms and initiatives as well as key data and numbers that will assist initial carbon calculations.

Corporate Real Estate Asset Management Barry Haynes 2010 Real Estate is not only one of the most valuable assets for a business in terms of visual representation of the company, but also one of the most costly assets. It is therefore important for those studying and practising in Real Estate and Property Management to know how to minimise costs and maximise profit in order to manage these assets efficiently. Corporate Real Estate Management considers the commercial property market from the perspective of the business occupier, offering contemporary solutions to problems and innovative and inspiring added value action plans. It raises the awareness of how real estate can support the business, transform the workplace and impact upon people and

productivity. For anybody beginning a career in Real Estate Management, this book considers the theory and concepts behind real estate asset management, whilst offering strategies and practical advice on how these should be implemented in a business context. •Written from the perspective of the occupier to provide strategies to be used in practice, which illustrate theory to aid learning •International case studies from Helsinki, Hong Kong, and Prague give necessary insight for global business •Aligns Estates Management, Facilities Management, Asset Management and business strategy to offer a more rounded understanding for potential managers

Elevator Traffic Handbook Gina Barney 2015-08-27 This second edition of this well-respected book covers all aspects of the traffic design and control of vertical transportation systems in buildings, making it an essential reference for vertical transportation engineers, other members of the design team, and researchers. The book introduces the basic principles of circulation, outlines traffic design methods and examines and analyses traffic control using worked examples and case studies to illustrate key points. The latest analysis techniques are set out, and the book is up-to-date with current technology. A unique and well-established book, this much-needed new edition features extensive updates to technology and practice, drawing on the latest international research.

Urban Planning and Real Estate Development John Ratcliffe 2009-01-19 The twin processes of planning and property development are inextricably linked – it's not possible to carry out a development strategy without an understanding of the planning process, and equally planners need to know how real estate developers do their job. This third edition of Urban Planning and Real Estate Development guides students through the procedural and practical aspects of developing land from the point of view of both planner and developer. The planning system is explained, from the increasing emphasis on spatial planning at a regional level down to the detailed perspective of the development control process and the specialist requirements of historic buildings and conservation areas. At the same time the authors explain the entire development process from inception through appraisal, valuation and financing to completion and disposal. This is an invaluable textbook for real estate and planning students, and helps to meet the requirements of the RICS and RTPI Assessment of Professional Competence.

Energy and Environmental Issues for the Practising Architect Ian C. Ward 2004 This book is aimed at anyone who has an interest in the design and procurement of buildings, in particular, to the practising architect and students of architecture. It will also be useful to those studying or practising in design-related fields.

Building Services Journal 2006

Corporate Real Estate Asset Management Barry Haynes 2017-04-28 The second edition of Corporate Real Estate Asset Management is fully up to date with the latest thought and practice on successful and efficient use of corporate office space. Written from an occupier's perspective, the book presents a ten-point CREAM model that offers advice on issues such as sustainability, workplace productivity, real estate performance measurement, change management and customer focus. In addition, new case studies provide real-life examples of how corporations in the UK, USA, Hong Kong and Abu Dhabi actively manage their corporate real estate. The book is aimed at advanced undergraduate and graduate students on corporate real estate, facilities management and real estate courses and international MBA programmes.

The Architects' Handbook Quentin Pickard 2008-04-30 The Architects' Handbook provides a comprehensive range of visual and technical information covering the great majority of building types likely to be encountered by architects, designers, building surveyors and others involved in the construction industry. It is organised by building type and concentrates very much on practical examples. Including over 300 case studies, the Handbook is organised by building type and concentrates very much on practical examples. It includes: · a brief introduction to the key design considerations for each building type · numerous plans, sections and elevations for the building examples · references to key technical standards and design guidance · a comprehensive bibliography for most building types The book also includes sections on designing for accessibility, drawing practice, and metric and imperial conversion tables. To browse sample pages please see

<http://www.blackwellpublishing.com/architectsdata>

Good Office Design David Littlefield 2019-07-25 This book examines the trends and innovations at the cutting edge of office design in the UK today. Selected from British Council for Offices Award winners since 2002 and interpreting empirical analyses by Davis Langdon, the varied and stunningly illustrated case studies presented here demonstrate the latest thinking from the world of workplace design. Taken together, they offer insight and inspiration for architects, developers, clients and anyone interested in getting the very best out of places of work. The text is sharp and authoritative, and complemented by colour photographs, floor plans, elevations and detail drawings. The chapters are organised into salient topics the Workplace, Location, Structure, Cost and Sustainability but along the way take account of numerous critical issues such as light levels and staff amenities. A wide-ranging end chapter, written by Jeremy Myerson and Paul Warner, knits together contemporary socio-cultural influences to imagine the future of the office.

Labelling the Economy Brice Laurent 2020-02-01 This collected volume analyses labelling as a political and economic operation. It gathers contributions that focus on various domains, including the agri-food sector, the construction sector, eco-labelling, retail, health public policies and the energy sector, considering the use of labels for various objectives, such as providing legal and technical data on consumption products, certifying their quality, and indicating the approval of professional or political authorities. These practices are tied to both public and private interventions that make civic concerns visible and aim to govern them. The book considers 'labelling the economy' as an operation that introduces political questions into the economic realm, while also importing economic modes of reasoning into governance interventions. In doing so, the book considers the sociotechnical apparatus on which any label relies as a nexus where economic and political considerations are brought together.

Sustainable Construction Sandy Halliday 2008 A pioneering 'How To' guide on the practical implementation of sustainable construction techniques.

A Handbook of Sustainable Building Design and Engineering Dejan Mumovic 2013-06-17 The combined challenges of health, comfort, climate change and energy security cross the boundaries of traditional building disciplines. This authoritative collection, focusing mostly on energy and ventilation, provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges. A Handbook of Sustainable Building Engineering covers: how to design, engineer and monitor a building in a manner that minimises the emissions of greenhouse gases; how to adapt the environment, fabric and services of existing and new buildings to climate change; how to improve the environment in and around buildings to provide better health, comfort, security and productivity; and provides crucial expertise on monitoring the performance of buildings once they are occupied. The authors explain the principles behind built environment engineering, and offer practical guidance through international case studies.

Construction Law and Management Keith Pickavance 2013-09-05 Construction Law and Management explains the state of design information appropriate to a given procurement route, and the need to identify risks and strategies for managing them. This handy desk side reference offers a comprehensive guide to construction law and management and is essential reading for anyone in the construction, architecture and engineering industries.

Smart Cities Anuar Mohamed Kassim 2021-10-13 The development of smart cities is important and beneficial to a government and its citizens. With the advent of the smartphone, rapid and reliable communication between and among individuals and governments has become ubiquitous. Everything can be connected and accessed easily with the touch of a finger. Changes in mobile internet telecommunication systems allow for the advance of new urbanization using smart city development methods. The evolution of technology in Industry 4.0, such as the advancement of cutting-edge sensors utilizing the Internet of things (IoT) concept, has wide applications in developing various smart systems. This publication analyzes the interconnected cyber-physical systems inherent in smart cities, and the development methods and applications thereof.