

Intelligent Buildings And Building Automation

Mitchell's Introduction to Building Introduction to Building Refurbishment and Upgrading of Buildings How Buildings Work Buildings and Power Barry's Introduction to Construction of Buildings Earth Building Building Construction Handbook Modern Buildings The Archaeology of Buildings Better Buildings The Care of Old Buildings Today The Construction of New Buildings Behind Historic Facades The British Building Industry since 1800 Building Maintenance and Preservation Barry the Construction of Buildings Barry's Advanced Construction of Buildings Barry's Advanced Construction of Buildings Performance Based Building Design 1 Living Buildings Roger Greeno Derek Osbourn David Highfield Huw Evans Thomas A. Markus Stephen Emmitt Laurence Keefe R. Chudley George Alexander Thomas Middleton Richard K. Morriss Richard Partington Donald William Insall Mr David Highfield Christopher Powell Edward David Mills Robin Barry Stephen Emmitt Stephen Emmitt Hugo S. L. Hens Donald Insall

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introduction to building provides a comprehensive introduction to various aspects of development and associated building procedures from initial planning and design through procurement of building work contractual arrangements and construction techniques now in its fifth edition this popular text continues to present an authoritative overview of the many design and practical considerations associated with the creation and maintenance of modern buildings including repair of existing buildings and traditional construction procedures topics covered include the functional requirements of a building appearance durability dimensional suitability strength and stability weather exclusion sound control thermal comfort fire protection lighting and ventilating sanitation and drainage security cost sustainability building processes the building team communication and construction methods

provides an overview of the design and practical considerations associated with the creation and maintenance of buildings this edition includes legislation and government guidelines and it presents an introduction to the various aspects of building and development from initial planning and design through contract procurement to construction

a detailed guide to the technical aspects of refurbishing and upgrading buildings this book provides solutions to a range of problems challenges and issues and is essential reading for all students studying building refurbishment at all levels includes existing floor and wall strengthening facade retention introduction of new floors timber decay problems fire resistance prevention of moisture and damp upgrading thermal and acoustic performance this new edition has been fully updated to include new technological information and covers new areas such as stonework restoration and repair upgrading of c1960 framed buildings refurbishment logistics and case studies

an understanding of building physics is fundamental for the design and construction of safe functional energy efficient buildings without it occupants health and comfort is compromised energy

bills become unmanageable or the building fabric itself can fail but it's not just about providing a heating source or stopping the cold coming in at the heart of building physics is a fine balancing act how much ventilation will be required for the occupants and how can that be provided without compromising the thermal performance how will the layout and fenestration affect light levels and cooling demand how buildings work provides construction professionals with a clear understanding of the basic mechanisms of physics and how they affect the performance and operation of buildings heat air moisture sound light and radioactivity are explained in turn yet all the while reminding the reader that none of these phenomena can be considered in isolation when designing a building whether you're a student trying to get your head round the basics or a seasoned practitioner looking for a quick refresher course

the material and cultural world in which we now live perhaps represents the end of a process created out of the enlightenment and the industrial revolution the battles fought over class ideology and language are represented most clearly in the explosion of new building types during the century of revolutions lavishly illustrated with photographs drawings maps and plans buildings and power analyses architectural form function and space to explore the reproduction and the subversion of power in the modern city

the five volume series Barry's construction of buildings has been established as a standard text on building technology for many years however a substantial update has long been required and while doing this the opportunity has been taken to reduce five volumes to two in a more user friendly format the introductory volume covers domestic construction and brings together material from volumes 1 2 and part of 5 the extensive revision includes modern concepts on site assembly environmental issues and safety and features further reading

buildings with load bearing earth walls were once widespread throughout Britain and many thousands still survive including some dating from the fourteenth and fifteenth centuries earth is the ultimate form of green building construction creating no environmental pollutions and consuming virtually no energy subsoil can be dug from or near the site to construct buildings that will meet modern needs and conform to the latest building regulations this book describes all aspects of earth building explaining how earth performs as a building material and providing guidance on how best to repair and conserve existing earth buildings

this 6th edition includes numerous revisions amendments and additions in line with ongoing practice and legislative changes in building construction included are features of construction that are designed to economise and manage the use of fuel energy in buildings and limit the effect on atmospheric pollution

the study of buildings whether out of sheer interest or to assist planning decisions is a branch of archaeology which is distinct from both archaeology and architectural history yet allied to both this book begins by providing background information about studying the basic materials used in a building's construction such as stone brick or timber framing the author explains how various clues left by the builders can add to the historic background and use of the site and explains how all these strands of information can be woven together to produce a detailed understanding of how any building has developed over the years over 100 illustrations and two invaluable appendices typical examples of buildings and an illustrated glossary of terms complete a handbook that has long been needed by professionals and amateurs alike

this book started life as a successor to sustainable architecture published in 2007 which set out to prove that sustainable architecture can indeed both lift the spirit as well as save the planet this fully revised edition seeks to take a step further exploring how sustainable buildings are occupied and work and sheds light on the methods used to observe this through short essays from thought leaders and case studies of visually stunning environmentally ground breaking projects better buildings provides architects with the inspiration and tools they need to deliver sustainable design

facade retention schemes are increasingly being used as a means of providing modern accommodation for commercial and industrial buildings in conservation areas and city centres this book is the first authoritative guide to this highly complex technique and deals with the key issues associated with building behind historic facades it explains the

this scholarly and well researched study of the building industry documents the interplay of new materials and technologies costs and the changing social and economic forces that affected the decision making about our built environment over the last two centuries the author provides a succinct and readable survey of the growth and development of british building which will be of interest to all building specialists and those training for a career in the construction industry

barry s advanced construction of buildings an up to date edition of the comprehensive guide to building practice since 1958 barry s construction of buildings has served as a standard guide to building practices and construction skills the second volume of this two volume format barry s advanced construction of buildings builds on the introductory material of the first volume to offer readers a thorough grounding in construction and its various facets emphasizing large scale buildings particularly those with load bearing frames in timber concrete and steel and supported by chapters on offsite construction piling envelopes to framed buildings fit out and second fix lifts and escalators building pathology upgrading and demolition this latest edition incorporates critical new material including new questions in each chapter designed to enhance learning updates throughout reflecting the latest building practices and professional knowledge a new focus on low carbon construction barry s advanced construction of buildings is an essential tool for any student working towards qualifications in building and construction and a handy reference for construction professionals in any area

robin barry s construction of buildings was first published in 1958 in 5 volumes rapidly becoming a standard text on construction in its current 2 volume format barry remains hugely popular with both students and lecturers of construction and related disciplines the third edition of barry s advanced construction of buildings expands and deepens your understanding of construction technology it covers the construction of larger scale buildings primarily residential commercial and industrial constructed with load bearing frames supported by chapters on fit out and second fix lifts and escalators off site construction and a new chapter on building obsolescence and revitalisation functional and performance requirements of the main building elements are emphasised throughout as is building efficiency and meeting the challenges of limiting the environmental impact of buildings you will find the text fully up to date with the latest building regulations and construction technologies the new edition with supporting material at wiley.com/go/barrysintroduction is an ideal information source for developing a wider and deeper understanding of construction technology

so wenig wie die bauphysik standen energieeffizienz und gebäudeperformance vor der energiekrisis der 1970er jahre bei der planung von gebäuden auf der tagesordnung mit der wachsenden notwendigkeit der energieeinsparung stieg aber das interesse an der ganzheitlichen gebäudeplanung das zweibändige werk stellt die ganzheitliche gebäudebetrachtung und seine performance getragen von der anwendung bauphysikalischer zusammenhänge in der planung und ausführung dar der begriff gebäudeperformance meint hier alle gebäudebezogenen physikalischen eigenschaften die im entwurfsprozess planbar und während des bauprozesses und im betrieb kontrollierbar sind der begriff planbar erfordert berechnungsmodelle und verfahren für die bemessung und auslegung während kontrollierbar den einsatz von messtechnik und vergleichsanalysen erfordert dieser erste von zwei bänden stellt die ganzheitliche gebäudebetrachtung getragen von der anwendung bauphysikalischer zusammenhänge in der planung und ausführung dar einem überblick über die wesentlichen materialien für wärmeeinsparung abdichtung luftdichtigkeit und feuchteschutz sowie erdverankerungen über fugen folgt eine ausführliche darstellung der hochbaukonstruktionen beginnend bei der baugrube anschließend werden grundungen erdberührte und aufsteigende bauteile über tragwerke lastabtragungs- und deckensysteme bis hin zu massiven außenwänden mit außen- einseitiger oder innen- zweischaligen wärmedämmung und zweischaligen wärmedämmung behandelt dabei folgen die meisten kapitel der systematik überblick allgemeine anforderungen planung ausführliche darstellung das werk bietet sowohl für studenten der architektur und des bauingenieurwesens umfassendes rüstzeug für die bewertung von hochbaukonstruktionen als auch den in der praxis tätigen bauingenieuren ein nachschlagewerk zur auffrischung des wissens das buch setzt grundlegende kenntnisse der bauphysik sowie grundkenntnisse in tragwerksplanung baustoffkunde und baukonstruktionen voraus

celebrates the 50th anniversary of donald insall assoc it is a detailed examination of insall s painstaking approach to architectural conservation

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