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Car Park Designers' Handbook

Thomas Telford 'Car Park Designers' Handbook' looks at multi-storey car parks as being utilitarian constructions. The authors do not see their design as being a finite art but as a compromise between the motorist's spatial desires and the practical need to achieve economy of construction.

Metric Handbook

Routledge * Take a look at the dedicated microsite for free sample content - architecturalpress.com/the-metric-handbook * Originally devised as a guide for converting from imperial to metric measurements, 'The Metric Handbook' has since been totally transformed into the major handbook of planning and design data for architects. This new edition has been updated to account of the most recent changes to regulation and practice – in particular the increasing emphasis on environmental legislation - to meet the needs of the modern building design professional. The Metric Handbook deals with all the principal building types from airports, factories and warehouses, offices shops and hospitals, to schools, religious buildings and libraries. For each type the book gives the basic design requirements and all the principal dimensional data, as well as succinct guidance on how to use the information and what regulations the designer may need to be aware of. As well as buildings the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook is a unique authoritative reference for solving everyday planning problems. It has sold well over 100,000 copies worldwide to successive generations of architects and designers – this is a book that truly belongs on every design office desk and drawing board.

Confronting Global Climate Change

Experiments & Applications in the Tropics

CRC Press This book offers a solutions-based approach to climate change problems which potentially impinge on human beings within the tropics. It largely comprises research articles with supplementary applications and illustrations. The effects of atmospheric phenomena, energy acquisition, wind power, CO2 sequestration, are linked with soils, aquatic life, reducing deforestation, rainwater harvesting and clay pot farming, climate, plant disease and food security to show that no area of life is untouched by the phenomenon of climate change. It discusses specific problem areas and provides an overview of geotechnical and sustainable solutions to lessen the impact of climate.

Metric Handbook

Planning and Design Data

Routledge Significantly updated in reference to the latest construction standards and evolving building typesMany chapters revised including housing, transport, offices, libraries and hotelsNew chapter on flood-aware designSustainable design integrated into chapters throughoutOver 100,000 copies sold to successive generations of architects and designers - this book belongs in every design studio and architecture school libraryThe 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,

Construction Law Handbook

Thomas Telford A legal reference on construction law that offers guidance for professionals and addresses the important construction law issues.

Environmental Handbook for Building and Civil Engineering Projects: Design and specification

Thomas Telford This handbook provides practical advice and guidance on the environmental issues that are likely to be encountered at each stage of a building or civil engineering project.

Recommendations for the Inspection, Maintenance and Management of Car Park Structures

Thomas Telford - Scope - Responsibilities - Statutory requirements - Developing a long term inspection and maintenance strategy - Inspections and structural appraisals - Maintenance, repair and upgrading or replacement - Health and safety of personnel on site - Reporting the structural appraisal - References - Appendix: Structural deterioration, design deficiencies and safety

Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures

IABSE

The Routledge Handbook of Planning for Health and Well-Being

Shaping a sustainable and healthy future

Routledge Urban planning is deeply implicated in both the planetary crisis of climate change and the personal crises of unhealthy lifestyles. Worldwide health issues such as obesity, mental illness, growing health inequalities and climate vulnerability cannot be solved solely by medicines but also by tackling the social, economic and environmental determinants. In a time when unhealthy and unsustainable conditions are being built into the physical fabric of cities, a new awareness and strategy is urgently needed to putting health and well-being at the heart of planning. The Routledge Handbook of Planning for Health and Well-being authoritatively and comprehensively integrates health into planning, strengthening the hands of those who argue and plan for healthy environments. With contributions from international leaders in the field, the Handbook of Planning for Health and Well-being provides context, philosophy, research, processes, and tools of experienced practitioners through case studies from four continents.

Fluid Mechanics Aspects of Fire and Smoke Dynamics in Enclosures

CRC Press This book provides essential understanding of flows in fire and smoke dynamics in enclosures, covering combustion, heat transfer and fire suppression in more detail than other introductory books. It moves from the basic equations for turbulent flows with combustion, through a discussion of the structure of flames, to fire and smoke plumes and their interaction with enclosure boundaries. This is then applied to fire dynamics and smoke and heat control in enclosures. This new edition provides considerably more on the fluid mechanics of the effect of water, and on fire dynamics modelling using Computational Fluid Dynamics. Presents worked examples taken from practical, everyday fire-related problems Covers a broad range of topics, from the basics to state-of-the-art computer simulations of fire and smoke-related fluid mechanics, including the effect of water Provides extensive treatment of the interaction of water sprays with a fire-driven flow Contains a chapter on Computational Fluid Dynamics, the increasingly popular calculation method in the field of fire safety science The book serves as a comprehensive guide at the undergraduate and starting researcher level on fire and smoke dynamics in enclosures, with an emphasis on fluid mechanics.

Vibration and Shock Handbook

CRC Press Every so often, a reference book appears that stands apart from all others, destined to become the definitive work in its field. The Vibration and Shock Handbook is just such a reference. From its ambitious scope to its impressive list of contributors, this handbook delivers all of the techniques, tools, instrumentation, and data needed to model, analyze, monitor, modify, and control vibration, shock, noise, and acoustics. Providing convenient, thorough, up-to-date, and authoritative coverage, the editor summarizes important and complex concepts and results into “snapshot” windows to make quick access to this critical information even easier. The Handbook’s nine sections encompass: fundamentals and analytical techniques; computer techniques, tools, and signal analysis; shock and vibration methodologies; instrumentation and testing; vibration suppression, damping, and control; monitoring and diagnosis; seismic vibration and related regulatory issues; system design, application, and control implementation; and acoustics and noise suppression. The book also features an extensive glossary and convenient cross-referencing, plus references at the end of each chapter. Brimming with illustrations, equations, examples, and case studies, the Vibration and Shock Handbook is the most extensive,

practical, and comprehensive reference in the field. It is a must-have for anyone, beginner or expert, who is serious about investigating and controlling vibration and acoustics.

Better Places to Live

By Design : a Companion Guide to PPG3

Thomas Telford This book focuses on the attributes that underlie well-designed, successful residential environments. In drawing up the guide the authors looked at a series of case studies, both of contemporary developments and places that have stood the test of time. These places illustrate how better attention to design can enhance the quality of life experienced within these home environments; places should be designed around people.

Traces of a Mobile Field

Ten Years of Mobilities Research

Routledge This agenda-setting collection critically reflects upon a decade of contributions to the social scientific ‘mobilities turn’ in order to propose new trajectories for the future of this interdisciplinary research field. The chapters are all exemplars of how the past decade of research has opened up new insights into the place of mobilities in societies. They also highlight how attempts to look forward towards new conversations, understandings, and interventions in a mobile world will emerge from the transformations invoked by this field of research. Authors foreground issues of power, interdisciplinarity, transformative technologies, fragmented discourses and changing social processes whilst addressing automobility, aeromobility, tourism, communications technologies, urban infrastructures, migration, and emergencies. As a whole, the collection raises important questions about not only how understandings of mobilities are changing, but also how the field of mobilities research is itself on the move. The evocative empirical cases and provocative arguments in this book thus highlight the necessity of new concepts, conversations, methods, empirical studies and interventions to address transformations in both the complex mobilities of social worlds and what is examined or taken for granted in mobilities research itself. This book was originally published as a special issue of Mobilities.

Urban Design and the British Urban Renaissance

Routledge Are Britain’s cities attractive places in which to live, work and play? Asking that question, this is a critical review of how the design dimension of the Urban Renaissance strategy was developed and applied, based on expert academic assessments of progress in Britain’s thirteen largest cities. The case studies are preceded by a dissection of New Labour’s renaissance agenda, and concluded by a synthesis of achievements and failings. Exploring the implications of this strategy for the future of urban planning and design, this is a must-read for students, practitioners of these subjects and for all those who wish to improve the quality of the British urban environment.

Modeling Interactions among Pedestrians and Cars in Shared Spaces

Springer Nature In this book, a novel agent-based, realistic, and general motion model of pedestrians and (human-driven) vehicles is proposed. It can capture a large variety of interactions and be utilized to assess the applicability of different shared space schemes and in the advent of autonomous vehicles. Sustainable urban traffic and transport is a key to successful future development of our society. Urban traffic is predicted to increase further, and the lack of traffic space makes it undesirable to maintain today's strict separation of different modalities. Shared space design principles promote a flexible use of traffic infrastructure by enabling different traffic modalities to share the same space with few or no explicit regulations. Simulation technologies are becoming an essential tool for traffic planners and managers to analyze future urban areas before new concepts and technologies are applied on the road. The proposed simulation model can suitably replicate the motion behaviors of pedestrians and vehicles from new environments with incremental integration of new behaviors and calibrating model parameters.

Using the Engineering Literature

CRC Press The field of engineering is becoming increasingly interdisciplinary, and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of expertise. However, studies have shown that quality information-finding skills often tend to be lacking in the engineering profession. Using the Engineerin

Transit Research Abstracts

Proceedings of the Institution of Civil Engineers

Civil engineering

Port Designer's Handbook

Recommendations and Guidelines

Thomas Telford Over the past twenty years there has been considerable improvement and new information in the design of port and berth structures. This handbook reflects the lastest progress and developments in navigation safety, port planning and site selection, layout of container, oil and gas terminals, cargo handling, berth design and construction, fender and mooring principles. It presents guidelines and recommendations for the main items and assumptions in the layout, desing and construction of modern port structures, and the forces and loadings acting on them. The book provides an evaluation of different designs and construction methods for port and berth structures, and recommendations given by the different international harbour standards and recommendations. Practising harbour and port engineers and students will find the handbook an invaluable source of information.

Sustainable Surface Water Management

A Handbook for SUDS

John Wiley & Sons Sustainable Surface Water Management: a handbook for SUDS addresses issues as diverse as flooding, water quality, amenity and biodiversity but also mitigation of, and adaptation to, global climate change, human health benefits and reduction in energy use. Chapters are included to cover issues from around the world, but they also address particular designs associated with the implementation of SUDS in tropical areas, problems with retrofitting SUDS devices, SUDS modelling, water harvesting in drought-stricken countries using SUDS and the inclusion of SUDS in the climate change strategies of such cities as Tokyo, New York and Strasbourg.

Structural Concrete Textbook, Volume 5

Textbook

fib Fédération internationale du béton The third edition of the Structural Concrete Textbook is an extensive revision that reflects advances in knowledge and technology over the past decade. It was prepared in the intermediate period from the CEP-FIP Model Code 1990 (MC90) tofib Model Code for Concrete Structures 2010 (MC2010), and as such incorporates a significant amount of information that has been already finalized for MC2010, while keeping some material from MC90 that was not yet modified considerably. The objective of the textbook is to give detailed information on a wide range of concrete engineering from selection of appropriate structural system and also materials, through design and execution and finally behaviour in use. The revised fib Structural Concrete Textbook covers the following main topics: phases of design process, conceptual design, short and long term properties of conventional concrete (including creep, shrinkage, fatigue and temperature influences), special types of concretes (such as self compacting concrete, architectural concrete, fibre reinforced concrete, high and ultra high performance concrete), properties of reinforcing and prestressing materials, bond, tension stiffening, moment-curvature, confining effect, dowel action, aggregate interlock; structural analysis (with or without time dependent effects), definition of limit states, control of cracking and deformations, design for moment, shear or torsion, buckling, fatigue, anchorages, splices, detailing; design for durability (including service life design aspects, deterioration mechanisms, modelling of deterioration mechanisms, environmental influences, influences of design and execution on durability); fire design (including changes in material and structural properties, spalling, degree of deterioration), member design (linear members and slabs with reinforcement layout, deep beams); management, assessment, maintenance, repair (including, conservation strategies, risk management, types of interventions) as well as aspects of execution (quality assurance), formwork and curing. The updated textbook provides the basics of material and structural behaviour and the fundamental knowledge needed for the design, assessment or retrofitting of concrete structures. It will be essential reading material for graduate students in the field of structural concrete, and also assist designers and consultants in understanding the background to the rules they apply in their practice. Furthermore, it should prove particularly valuable to users of the new editions of Eurocode 2 for concrete buildings, bridges and container structures, which are based only partly on MC90 and partly on more recent knowledge which was not included in the 1999 edition of the textbook.

HRIS Abstracts

Finite Element Design of Concrete Structures

Practical Problems and Their Solution

Thomas Telford In Finite Element Design of Concrete Structures: practical problems and their solutions the author addresses this blind belief in computer results by offering a useful critique that important details are overlooked due to the flood of information from the

output of computer calculations. Indeed, errors in the numerical model may lead in extreme cases to structural failures as the collapse of the so-called Sleipner platform has demonstrated.

The Value of Urban Design

A Research Project Commissioned by CABE and DETR to Examine the Value Added by Good Urban Design

Thomas Telford Good urban design offers strong competitive advantages and does not necessarily cost more to deliver. This ground-breaking report examines the way in which superior urban design adds value by increasing the economic viability of development and by delivering social and environmental benefits.

Highway Research Abstracts

Conceptual Structural Design

Bridging the Gap Between Architects and Engineers

Thomas Telford Publishing This book aims to brige the gap between engineers' and architects' understanding of structural form. Its intention is to inspire the development of innovative and viable structures. It presents case studies where imaginative structural forms are in harmony with the architectural concept and at the same time present very efficient solutions to technical and structural problems.

AA Book of British Towns

Engineering Geology and Construction

CRC Press Winner of the 2004 Claire P. Holdredge Award of the Association of Engineering Geologists (USA). The only book to concentrate on the relationship between geology and its implications for construction, this book covers the full scope of the subject from site investigation through to the complexities of reservoirs and dam sites. Features include international case studies throughout, and summaries of accepted practice, plus sections on waste disposal, and contaminated land.

The Structural Engineer

Journal of the Institution of Structural Engineers

Bibliography of Nautical Books

This is the 15th annual edition of the Bibliography of Nautical Books, a reference guide to over 14,000 nautical publications. It deals specifically with the year 2000.

Prestressed Concrete Bridges

Design and Construction

Thomas Telford Prestressed concrete decks are commonly used for bridges with spans between 25m and 450m and provide economic, durable and aesthetic solutions in most situations where bridges are needed. Concrete remains the most common material for bridge construction around the world, and prestressed concrete is frequently the material of choice. Extensively illustrated throughout, this invaluable book brings together all aspects of designing prestressed concrete bridge decks into one comprehensive volume. The book clearly explains the principles behind both the design and construction of prestressed concrete bridges, illustrating the interaction between the two. It covers all the different types of deck arrangement and the construction techniques used, ranging from in-situ slabs and precast beams; segmental construction and launched bridges; and cable-stayed structures. Included throughout the book are many examples of the different types of prestressed concrete decks used, with the design aspects of each discussed along with the general analysis and design process. Detailed descriptions of the prestressing components and systems used are also included. Prestressed Concrete Bridges is an essential reference book for both the experienced engineer and graduate who want to learn more about the subject.

Traffic Engineering & Control

Highways

Recommendations for the Inspection, Maintenance and Management of Car Park Structures, Second Edition

Inst of Civil Engineers Pub

Understanding BIM

The Past, Present and Future

Routledge Understanding BIM presents the story of Building Information Modelling, an ever evolving and disruptive technology that has transformed the methodologies of the global construction industry. Written by the 2016 Prince Philip Gold Medal winner, Jonathan Ingram, it provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages its effective use can provide to a project team. Ingram, who pioneered the system heralding the BIM revolution, provides unrivalled access to case material and relevance to the current generation of BIM masters. With hundreds of colour images and illustrations showing the breadth and power of BIM, the book covers: The history of BIM What BIM is in technical and practical terms How it changes the day to day working environment Why we need BIM and what problems it can solve Where BIM is headed, particularly with regards to AI, AR, VR and voice recognition International case studies from a range of disciplines including: architecture, construction management, and retail Professionals and students in any field where the inter-disciplinary aspects of BIM are in operation will benefit from Ingram’s insights. This book is an authoritative account of and reference on BIM for anyone wanting to understand its history, theory, application and potential future developments.

LAXTON'S BUILDING PRICE

Elsevier Now in its 179th edition, Laxton’s has become a firm favourite in the UK Building Industry. With more prices and more in-depth build-ups, Laxton’s offers more practical and complete information than any other price book available This new edition takes into account major price variations that stem frm raw material costs in the last few months. * Higher-fuel costs have impacted on prices across the board, in particular costs of non-ferrous metals in increased * Copper sheet and pipe show prince increases of well above 50% in the last year, while zinc, lead and aluminium prices have also risen significantly * There are savings in plaster and drainage goods, prices are down All the prices in Laxton's are based on the new 3 year Construction Industry Joint council wage rate agreement that came into force at the end of June 2006 *Saving you time - comprehensive basic price and approximate estimating sections make putting together outline costings quicker and easier *Saving you effort - all the information you need on each measured item is clearly set out on a single page, with a full break down of costs *Saving you money - all 250,000 prices are individually checked and updated to make sure that your tender costs are precise

Man of Iron

Thomas Telford and the Building of Britain

Bloomsbury Publishing The enthralling Sunday Times-bestselling biography of the shepherd boy who changed the world with his revolutionary engineering and whose genius we still benefit from today Thomas Telford's name is familiar; his story less so. Born in 1757 in the Scottish Borders, his father died in his infancy, plunging the family into poverty. Telford's life soared to span almost eight decades of gloriously obsessive, prodigiously productive energy. Few people have done more to shape our nation. A stonemason turned architect turned engineer, Telford invented the modern road, built churches, harbours, canals, docks, the famously vertiginous Pontcysyllte aqueduct in Wales and the dramatic Menai Bridge. His constructions were the greatest in Europe for a thousand years, and - astonishingly - almost everything he ever built remains in use today. Intimate, expansive and drawing on contemporary accounts, Man of Iron is the first full modern biography of Telford. It is a book of roads and landscapes, waterways and bridges, but above all, of how one man transformed himself into the greatest engineer Britain has ever produced.

Roses in December

Edwardian Recollections

Routledge & Kegan Paul Books

Cement Chemistry

Thomas Telford H F W Taylor was for many years Professor of Inorganic Chemistry at he University of Aberdeen, Scotland. Since 1948, his main research interest has been the chemistry of cement. His early work laid the foundations of our understanding of the structure at the nanometre level of C-S-H, the principal product formed when cement is mixed with water, and the one mainly reponsible for its hardening. Subsequent studies took him into many additional aspects of the chemistry and materials science of cement and concrete. His work has been recognized by Fellowships and by other honours and awards from many scientific societies in the UK, USA and elsewhere. This second edition of Cement chemistry addresses the chemistry and materials science of the principal silicate and aluminate cements used in building and Civil engineering. Emphasis throughout is on the underlying science. The book deals more specifically with the chemistry of Portland cement manufacture and the nature of the resulting product, the processes that occur when this product is mixed with water, the nature of the hardened material, the chemistry of other types of hydraulic cement, and chemical and microstructural aspects of concrete, including processes that affect its durability. Since the first edition of this book was published in 1990, research throughout the world has greatly augmented our knowledge in all of hese areas. The present edition has been updated and revised to take account of these advances. The reader will acquire a solid understanding of the subject and will be better equipped to deal with the problems and pitfalls that can arise in engineering practice as a result of inadequate understanding of the relevant chemistry. It will serve both as an introduction to those entering the subject for the first time and as a guide to the latest developments for those already experienced in the field.

Ultimate Limit-state Design of Concrete Structures

A New Approach

Thomas Telford Structural concrete members often show great deviation in structural performance from that predicted by the current code of practice. In certain cases the predications considerably underestimate the capabilities of a structure or member, while in others the predictions are unsafe as they overestimate the member's ability to perform in a prescribed manner. Clearly, a rational and unified design methodology is still lacking for structural concrete. This book presents a simplified methodology based on calculations which are quick, easily programmable and no more complex than those required by the current codes. It involves identifying the regions of a structural member or structure through which the external load is transmitted from its point of application to the supports and then strengthening these regions as required. As most of these regions enclose the trajectories of internal compression actions the technique has been called the 'compressive force path' method. Ultimate limit-state design for concrete structures will provide designers with a practical and easily applied method for the design of a concrete structure, which is fully compatible with the behaviour of concrete (as described by valid experimental evidence) at both the material and structural level.