

# Masonry Construction Manual Birkhauser

Constructing Architecture Facade Construction Manual Architectural Detailing Modern Construction Envelopes Materiality and Interior Construction Glass Construction Manual Architectural Detailing Façades Masonry Construction Manual High-rise Manual World Architecture Glass Construction Manual Log Construction Manual Advanced Architectural Design and Construction Glass Construction Manual Timber Construction Manual Climate and Architecture Manuscript Construction Manual for Polymers Architectural Publications Index Andrea Deplazes Thomas Herzog Patrick Rand Andrew Watts Jim Postell Edward Allen Ulrich Knaack Günter Pfeifer Johann Eisele Dieter Balkow Robert Wood Chambers Milan Palko Christian Schittich American Institute of Timber Construction Torben Dahl Axel Müller-Schöll

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now in its second edition the trailblazing introduction and textbook on construction includes a new section on translucent materials and an article on the use of glass

facade construction manual provides a systematic survey of contemporary expertise in the application of new materials and energy efficient technologies in facade design it surveys the facade design requirements made by various types of buildings as well as the most important materials from natural stone through to synthetics and documents a diversity of construction forms for a wide range of building types

the industry standard guide to designing well performing buildings aesthetics are a vital part of good design great design emerges from a deep understanding of the functionality and constructability of details good details provide clear complete and correct information to the wide variety of users that need them architects guide a project from design idea to buildable reality by working with other building industry professionals and creating a set of details that show how things are put together architectural detailing systematically describes the principles for designing good architectural details using patterns that demonstrate best practices and consistent approaches to design detailing this book teaches why detailing is important what factors shape detailing issues and how to detail a building that meets or exceeds

performance requirements extensive illustrations demonstrate how to design building details that will not leak water or air will control the flow of heat and water vapor will adjust to all kinds of movement and will be easy to construct this fourth edition has been updated to conform to the latest international building codes and international energy conservation code requirements and incorporates current knowledge about new material and construction technology including expanded patterns for sustainability high performance architecture and resilience examples using panelized or modularized prefabricated building assemblies complex case studies demonstrating the detailing design process for energy efficient structures design detailing for maintenance and management of sensitive or weak spots in a building assembly architectural detailing helps you bring a building together with a well detailed design that communicates effectively at all levels of the construction process

modern construction envelopes deals with the facade and roof as an integral part of the building allowing a holistic approach to the design of the building envelope and providing greater design freedom the book is aimed at readers who want to extend their knowledge of wall and roof construction beyond the information given in the modern construction handbook using state of the art construction principles of modern facade and roof systems the third edition of this classic has been fully brought up to date it contains new examples in all chapters and presents the projects in revised new 3d drawings and in 27 ar applications that can be accessed free of charge via smartphone and tablet

a comprehensive reference of materials for interior designers and architects choosing the right material for the right purpose is a critical and often overlooked aspect in the larger context of designing buildings and interior spaces when specified and executed properly materials support and enhance a project s overall theme and infuse interior space with a solid foundation that balances visual poetry and functionality materiality and interior construction imparts essential knowledge on how materials contribute to the construction and fabrication of floors partitions ceilings and millwork with thorough coverage of the important characteristics and properties of building materials and finishes individual coverage of the key characteristics of each material explores the advantages and disadvantages of using specific materials and construction assemblies while helping readers discover how to make every building element count in addition materiality and interior construction is highly illustrated throughout to show material properties and building assemblies supplies rankings and information on the green attributes of each material so that designers can make informed decisions for specifications is organized by application for easy and quick access to information includes a companion website featuring an extensive online image bank of materials and assemblies rather than a typical catalog of materials materiality and interior construction is efficiently organized so that the reader is guided directly to the options for the location or assembly they are considering reliable and easy to use materiality and interior construction is a one stop comprehensive reference for hundreds of commonly used materials and their integration as building components and an invaluable resource that every interior designer or architect should add to their set of tools

the industry standard guide to designing well performing buildings

architectural detailing systematically describes the principles by which good architectural details are designed principles are explained in brief and backed by extensive illustrations that show you how to design details that will not leak water or air will control the flow of heat and water vapor will adjust to all kinds of movement and will be easy to construct this new third edition has been updated to conform to international building code 2012 and incorporates current knowledge about new material and construction technology sustainable design issues are integrated where relevant and the discussion includes reviews of recent built works that extract underlying principles that can be the basis for new patterns or the alteration and addition to existing patterns regulatory topics are primarily focused on the us but touch on other jurisdictions and geographic settings to give you a well rounded perspective of the art and science of architectural detailing in guiding a design from idea to reality architects design a set of details that show how a structure will be put together good details are correct complete and provide accurate information to a wide variety of users by demonstrating the use of detail patterns this book teaches you how to design a building that will perform as well as you intend integrate appropriate detailing into your designs learn the latest in materials assemblies and construction methods incorporate sustainable design principles and current building codes design buildings that perform well age gracefully and look great architects understand that aesthetics are only a small fraction of good design and that stability and functionality require a deep understanding of how things come together architectural detailing helps you bring it all together with a well fleshed out design that communicates accurately at all levels of the construction process

introduction to building façades as revised edition façades determine the appearance of a building hence they constitute a major element in architecture at the same time the building's envelope has important functions to fulfil such as lighting weatherproofing thermal insulation load transfer and sound insulation over the past 15 years façades have become increasingly complex intelligent facades for instance adapt to changing climate and lighting conditions newly developed materials and technologies have broadened the scope of façade functions this book demonstrates the principles of façade construction it systematically describes the most common types such as post and beam façade curtain wall corridor façade or double façade and provides guidelines for appropriate detailing numerous drawings made especially for the book explain the principles of different types of facades which are then illustrated with built examples for this second edition all chapters were revised and all four examples in the case studies chapter were replaced by new material the new chapter future façades offers insights into what's next

the masonry construction manual examines the wide range of possibilities stone and brickwork offer in building it documents in great detail the technical principles and methods of building with these materials examines their properties the sizes and forms of bricks and stones the bonds and the behaviour of stone and brickwork under stress in addition full information is provided on the requirements with respect to heat damp sound proofing and fire protection and the most recent standards and norms are listed finally a large number of built examples are presented complete with plans and details all of which illustrate the many applications of stone and brickwork in

contemporary construction all plans have been drawn at equal scale especially for this book to ensure best legibility and easy comparison the construction manuals from edition detail have set new standards in the field of specialist literature becoming an indispensable part of any architect's library

what constitutes a high rise building a high rise is in fact any building with more than 9 storeys and not just those striking skyscrapers which shape modern city skylines in the past architects who designed such structures used to be the exception but in the last 10 years more and more architectural offices have begun to focus on this type of building however the sheer complexity of designing and planning the construction of a high rise as opposed to other building types requires a wealth of specialized experience and expertise the high rise manual is the first comprehensive reference work on this subject all relevant aspects of such an undertaking are examined in detail by some 24 specialist authors each step is extensively documented including the initial project planning the building organisation the laying of the foundations the supporting structure the building technology the office design and the facility management theoretical contributions present the basic principles of select

this is a reference work on working with glass this volume aims to show the wide range of possibilities for using glass in construction beginning with a historical overview of glass in architecture and explores the principles of construction with such practical aspects as fixing systems

log buildings are embedded deeply into north american history and culture for more than one thousand years builders have been weaving logs into homes shelters barns and churches today however the buildings where we live and work are rarely handmade from natural materials in this context handcrafted scribe fitted natural log buildings are an attractive and uplifting alternative to conventional buildings and building materials this book tells you what you need to know to build your own log home and also reveals the deep rhythms and patterns of log construction author robert chambers shows how to take naturally shaped tapered round logs and scribe fit them one to another so that they look like they actually grew together in the woods the log construction manual is filled with information available nowhere else including the log selection rules chambers's brilliantly simple method for choosing which log to use next instructions for building hip and valley log rafters and roof trusses from full round logs step by step directions for laying out the sill logs for virtually any floor plan including hexagons prisms and more state of the art compression fit saddle notches and underscribing to keep fits tight over time details on scribing and cutting long grooves and corner notches just like the pros and more chambers also offers advice on organizing and financing a log home project and has loads of experience to share on cutting costs and avoiding common pitfalls he presents practical ideas for saving money and controlling costs although handcrafted log homes are expensive to buy they are within reach for many as owner managed building projects written concisely with great care in explaining important details the log construction manual brings clarity insight depth and even humor to the log builder's craft this is a comprehensive book for log home owner builders beginners as well as professionals

special topic volume with invited peer reviewed papers only

glass offers a wide variety of possible applications for the realization of even the most ambitious designs in architecture and in the past two decades it has experienced an unparalleled burst of innovation for planners this means working constantly with this high performance material in compact and appealing form the completely revised glass construction manual presents the current state of the art on planning and building with glass from the history through the technical foundations all the way to the most innovative applications astonishing perspectives on thermal insulation and solar protection and the addition of thoughtfully selected new practical examples round off this comprehensive reference work

#### **publisher description**

drawing on examples from around the world this book explores the ways in which climate shapes architecture with international case studies the illustrated guide is distinctive in its focus on comfort rather than energy

das buch bietet grundlegende erste informationen für innenarchitekten und designer aus den gebieten der innenraumgestaltung zu decken fußböden wänden türen fenstern treppen etc aus der materialkunde zu teppichen tapeten wandanstrichen glas holzwerkstoffe stein beton ein weiterer schwerpunkt ist dem entwerfen und aufzeichnen gewidmet darstellungstechniken darstellende geometrie technische zeichnungen orientierungsmaße zeichen und symbole und mathematische grundlagen hinzu kommen grafische grundbegriffe elemente der druckvorstufe dateiformate und farbsysteme ergänzt und veranschaulicht werden die informationen mit praxisbeispielen originalen textbeiträgen von ruedi baur axel kufus norbert rademacher martin kunz u a sowie anregenden zitaten falls der leser die nutzerin des buches wollen können die seiten in japanbindung aufgetrennt werden es entsteht so immer wieder raum für persönlichen ergänzungen und notizen

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