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*Study of city
building blocks
represents a
first step
toward*

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*understanding
and successfully*

*developing the
built structure
of the city as a
physical and
social habitat.*

*Deals with the
various forms of
opening, such as
doors, windows,
ventilation
elements, and
fixed glass*

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*panes, and their
materialization,
which also*

*varies according
to function;*

*special
attention is
give to the
subject of
edges.*

*Facades - they
are the first
feature of a
building to be*

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noticed, they determine its distinctive appearance and are often the subject of controversial debate. This new first edition of the *Facade Construction Manual* provides a systematic survey of

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*contemporary
expertise in the
application of
new materials
and energy-
efficient
technologies in
facade design,
and represents
an invaluable
addition to our
series of
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Manuals. It*

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Manual
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

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Manual
forms for a wide
range of

building types.

Over 100

international

case-studies in

large-scale,

detailed

drawings are

presented in the

comprehensive

project section.

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Birkhouse
60. Geburtstag
von Univ.-Prof.
Dr.-Ing. Konrad
Zilch

Facade

Construction
Manual

Aberdeen as
'Designed City'
A Guide to
Modular Design
and Construction
Systems for
architectural

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Construction

*design and
prototyping*

Manual
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*Skins,
Envelopes, and
Enclosures*

**By presenting
the basics of
building science
along with a
prescribed set
of details,
Designing the**

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**Exterior Wall
Manual
Birkhauser**
**helps you
understand why
buildings fail
and how they
can be made
more durable
through design.
Author Linda
Brock connects
the science and
aesthetics of**

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building
envelopes

through the

examination of
a variety of

construction
and cladding

types. She

features details

from real world

projects in a

variety of

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**climates,
successful and
unsuccessful**

**case studies,
and checklists
you can use on
your own**

**projects. Helps
you reduce your
liability by
showing why
building**

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**envelopes fail
and how they
can be designed
to endure.**

**Moves from
theory to actual
construction by
including
hundreds of
building
envelope details
from a broad**

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Manual
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**array of projects
and climates.
Integrates**

**numerous
contemporary
case studies,
including Frank
Gehry's
Experiential
Music Center in
Seattle (thin
skins), Renzo**

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**Piano's Rue de
Meaux housing
in Paris (terra
cotta cladding),
and Mario
Botta's San
Francisco
Museum of
Modern Art
(prefabricated
brick panels).
Designing the**

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**Exterior Wall is
a must-have
book, whether
you're an
architect or a
student. Order
your copy
today.**

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encroachment
of the Internet
into nearly all**

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**aspects of work
and life, it
seems as
though
information is
everywhere.
However, there
is information
and then there
is correct,
appropriate,
and timely**

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information.

**While we might
love being able**

to turn to

**Wikipedia® for
encyclopedia-**

**like information
or search**

**Google® for the
thousands of**

**links on a topic,
engineers need**

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**the best
information,**

**information that
is evaluated, up-
to-date, and
complete.**

**Accurate, vetted
information is
necessary when
building new
skyscrapers or
developing new**

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**prosthetics for
returning
military**

**veterans While
the award-
winning first
edition of Using
the Engineering
Literature used
a roadmap
analogy, we
now need a thre**

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**e-dimensional
analysis
reflecting the**

**complex and
dynamic nature
of research in
the information
age. Using the
Engineering
Literature,
Second Edition
provides a guide**

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Construction
Manual
Birkhauser
**to the wide
range of
resources**

**available in all
fields of
engineering.**

**This second
edition has been
thoroughly
revised and
features new
sections on**

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Manual
Birkhauser
**nanotechnology
as well as green
engineering.**

**The information
age has greatly
impacted the
way engineers
find
information.**

**Engineers have
an effect,
directly and**

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Manual
Birkhauser

indirectly, on almost all aspects of our lives, and it is vital that they find the right information at the right time to create better products and processes.
Comprehensive

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Construction

**and up to date,
with expert
chapter authors,
this book fills a
gap in the
literature,
providing
critical
information in a
user-friendly
format.**

"Edited

Page 25/160

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Manual
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**anthology of 73
previously
published texts
on the theory
and practice of
the
conservation
and
management of
archaeological
sites"--Provided
by publisher.**

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Manual

**Schwerpunkte:
Kunststoffveran
kerungen,
Digitalisierung
im
Mauerwerksbau
An Architectural
Guide to the
Vertical
Envelope
bibliographische
s Bulletin der**

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Manual
Schweizerischen
Landesbibliothek,
Birkhäuser, Bern

**Zeitschrift für
Architektur &
Baudetail
Detailing for
Landscape
Architects
Zur Erdbebensicherung
von Mauerwerksbauten**

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Entwurfsidee

entwickelt

Möglichkeiten, wie

Studenten sich einer

entwurflichen Lösung

nähern können.

Neben

grundsätzlichen

Anregungen zu

kreativen Prozessen

und der Entwicklung

eines

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Construction

Entwurfsansatzes

Manual

werden verschiedene

Birkhauser

Inspirationsquellen

für eine Entwurfsidee

aufgezeigt. Ein

Schwerpunkt liegt auf

den drei Elementen

Ort, Form und

Funktion, die

einerseits direkte

Ausgangspunkte für

den Entwurf bieten

Download Free
Masonry

Construction

*können, andererseits
bei allen abstrakten
Ansätzen in den*

*fortschreitenden
Entwurfsprozess*

*einbezogen werden
müssen. Themen:*

Kreativität im

Entwurfsprozess

Inspirationsquellen

und Entwurfsansätze

Beschäftigung mit

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Construction

dem Ort

Beschäftigung mit der

Form Beschäftigung

mit der Funktion

Design-Tech is an

indispensable, holistic

approach to

architectural

technology that shows

you in hundreds of

drawings and tables

the why as well as the

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Construction
Manual
Birkhäuser
*how of building
science, providing
you with a*

*comprehensive
overview. In this
expanded edition,
measurements and
examples are listed in
both metric and
imperial units to
reflect the global
reality of*

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Construction
Manual
Birkhauser
architectural practice.

*The authors also
address digital*

*fabrication,
construction*

*documentation, ultra-
high-rise structures,
and zoning codes.*

*And there's more in-
depth coverage of
structural design and
greater emphasis on*

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environmental forces. Numerous case studies demonstrate real-world design implications for each topic, so that you can integrate technical material with design sensibilities. Short chapters explain each topic from first principles in easy-to-

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*reference formats,
Manual
Birkhäuser
focusing on what you
need to know both at
the drawing board
and in future
discussions with
engineers,
contractors, and
consultants. This new
edition incorporates
material from
continuing curricular*

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Construction
*experimentation in
the SCI-TECH
sequence at Iowa*

*State University,
which has been
recognized with
awards and funding
from the American
Institute of Architects,
the U.S. Green
Building Council, and
the National Council*

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Construction
Manual
Birkhauser
*of Architectural
Registration Boards.
Sustainability of
Construction
Materials, Second
Edition, explores an
increasingly
important aspect of
construction. In
recent years, serious
consideration has
been given to*

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Construction
Manual
Birkhauser

*environmental and
societal issues in the
manufacturing, use,
disposal, and
recycling of
construction
materials. This book
provides
comprehensive and
detailed analysis of
the sustainability
issues associated with*

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Construction

*these materials,
mainly in relation to
the constituent*

*materials, processing,
recycling, and
lifecycle*

*environmental
impacts. The contents
of each chapter
reflect the individual
aspects of the
material that affect*

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Construction

*sustainability, such as
the preservation and
repair of timber, the*

use of cement

replacements in

concrete, the

prevention and

control of metal

corrosion and the

crucial role of

adhesives in wood

products. Provides

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Construction
Manual
Birkhäuser

*helpful guidance on
lifecycle assessment,
durability, recycling,
and the engineering
properties of
construction materials
Fully updated to take
on new developments,
with an additional
nineteen chapters
added to include
natural stone,*

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*polymers and
plastics, and plaster
products Provides
essential reading for
individuals at all
levels who are
involved in the
construction and
selection, assessment
and use, and
maintenance of
materials*

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Manual

Materials Manual
Verzeichnis

lieferbarer Bücher
Architectural

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Building Science for
Architects

American Book

Publishing Record

Aesthetics, Function,
Constructibility

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***This new resource
covers the material
selection,***

***structural design
and connections***

***detailing of truly
sustainable timber***

***buildings through:
consideration of***

***the nature of wood
and the heritage of***

timber

construction,

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*including the
importance of
forestry and*

*conservation a
review of modern
techniques to
improve the
durability, fire
resistance and
predictability of
structural timber
elements and their
vital connections*

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*Construction
Manual
Birkhäuser*

***analysis of the
many architectural
and structural
options, from
roundwood shells
through glulam
arches and
gridshells to long
span hybrid
structures case
studies from
around the world
illustrating the***

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Masonry

Construction
Manual

*principles
discussed and the
true potential of
timber*

construction

*Historically there
has been an
imbalance*

*between the
availability of
information on
structural timber
design and the*

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Construction

much more

Manual
widespread

Birkhäuser
familiarity with

traditional

structural

materials such as

steel and concrete.

This book aims to

help redress the

balance by

presenting the

essential design

principles involved

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*Construction
Manual
Birkhäuser*

***in the creation of
elegant, user-
friendly timber
buildings that are
practical,
economic, and
thoroughly
sustainable.
Designed to
support specialist
study into the
benefits of 21st
Century timber***

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*engineering, this
book also offers
architects,
engineers and
other construction
professionals
practical advice on
all aspects of
modern timber
architecture.*

*Angesichts des
vom Menschen
verursachten*

Klimawandels und der Notwendigkeit, Wohnraum für eine wachsende Weltbevölkerung zu schaffen, ist zu überdenken, wie künftig gebaut werden soll. Holz ist ein Baumaterial, das unbegrenzt nachwächst, wenn

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Manual

**Wachstum und
Ernte nachhaltig
bewirtschaftet
werden. Jüngste
technologische
Fortschritte
ermöglichen den
Bau von hohen
mehrstöckigen
Tragwerken aus
Holz und können
so unsere Bauten
und Städte von**

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Manual
**CO₂-Verursachern
in**

**Kohlenstoffsenken
verwandeln. Das
Buch präsentiert
überzeugende
Argumente für den
verstärkten
Einsatz von Holz
als Alternative zu
energieintensiven
Baustoffen. Ein
integrierter Ansatz**

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Birkhäuser

***des Bauens mit
Holz hat das
Potenzial, sich***

***nachhaltig auf die
Umwelt, die lokale
Wirtschaft und die
Baukultur im
Allgemeinen
auszuwirken.***

***Prefabrication and
Architecture, a
manual about
prefab***

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Construction

architecture, is primarily written for the architect and construction professional. it is the only professional reference on prefab architecture, with information on the many facets of off-site construction.

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Manual

Prefabrication can allow for greater efficiency and precision, lessen environmental impact, and shorten construction cycles. Smith offers designers and construction professionals guidelines that

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Construction

*rethink all stages
of the design
process in order to
effectively utilize
the fabrication
process.*

Mauerwerk-

Kalender 2011

Using the

Engineering

Literature, Second

Edition

Prefab

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Architecture

Manual

**Sustainability of
Construction**

Materials

Archaeological

Sites

Zeitschrift für

Architektur &

Baudetail &

Einrichtung

*When considering
the successful
design of*

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cities, the focus tends to be on famous examples such as Paris or Rome, with equally successful but smaller and more remote examples being ignored. In addition, the more diffuse patterns of settlement of

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Birkhäuser

*the north and
western parts of
Europe are*

hardly

considered at

all in

comparison to

the tightly

formed urban

centres of the

Mediterranean.

However, the

diffuse

town/region is

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Construction
Manual

*typical of our
time, whatever
the location. By
analysing the
development of a
successful small
city of ancient
foundation which
grew from a
diffuse long
settled and
dense landscape,
then
demonstrated a*

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Manual

Birkhäuser

*slow growth as a
tight urban form
before an early
adoption of the
designed
landscape as
"town" lessons
can be learned.
These lessons
may be useful in
addressing the
nature and
growth of any
city or*

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Construction

*city/region. The
story of*

Aberdeen is just

such an example.

Not only are the

materials for

its long history

present, its

relations and

concerns with

the wider world

are also well

attested, and

many of the

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Manual

Birkhäuser

ideas which directed or significantly impinged on the design of cities were tested there, or had their origin there. As its form accumulated and developed over such a long time Aberdeen also suggests

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Construction Manual

Birkhäuser

*the idea of an
architecture of
the city. This
book examines
the development
and design of a
city from three
inescapable
aspects: its
location and
character of the
landscape; its
own particular
history of*

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Manual

Birkhäuser

*development; and
its cultural
responses to
various waves of
thought.*

*Systematically
organised for
instructional
purposes, this
single volume
communicates to
students and to
those setting
out on their*

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Construction

Manual
careers all
essential

technical and

construction

basics necessary

for the

practical

realisation of a

wide range of

designs. This

textbook on

building

demonstrates an

integral

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Construction

*approach which
combines*

specialised

technical

knowledge with

the lyrical

beauty of the

illustrated

buildings, and

background

information on

cultural and

historical

aspects.

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Manual
Birkhäuser

*Building is
perceived not
just as a feat*

*of technology or
engineering but
the culmination
of an artistic,
creative act of
will which can
be more*

*effectively
translated into
physical*

entities if the

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Manual

Birkhäuser

technical principles of construction are mastered. The book is divided into the following chapters: raw materials (modules); [masonry, concrete, wood, glass a?| building

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*Construction
Manual*
components
(elements);

*Wall, openings,
ceiling, roof,
stairs a?|.*

building types
(structures);

buildings
(examples) which
illustrate the
building process
of a project.

Die Konstruktion
satlanten der

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Edition "Detail"
Manual
Birkhäuser
baukonstruktiver
Fachliteratur

Maßstäbe

gesetzt. Dieser
Band der Reihe
zeigt nun als
vollständig neu
erarbeitete
Ausgabe die
heutigen
Möglichkeiten
des

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Construction

Manual
Birkhäuser
und dokumentiert
ausführlich die

technischen

Grundlagen der

Konstruktion: Ma-
terialeigenschaf-
ten von Stein

und Mörtel,

Steinformate und
-verbände,

Tragverhalten
sowie

Konstruktions-

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*Construction
Manual*
und Ausführungsw
eisen im

Mauerwerksbau

werden ebenso
erläutert wie
die bauphysikali
schen

Anforderungen an
Wärme-,

Feuchte-,

Schall- und

Brandschutz und

der neueste

Stand der

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Manual
Birkhäuser

Normung. Anhand
aktueller
gebauter

Beispiele wird
die vielfältige
Palette des
zeitgenössischen
Bauens mit
Mauerwerk
vorgestellt und
bis zur
Detailausbildung
gezeigt. Hierbei
wird auf

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*Construction
Manual
Birkhäuser*
unterschiedliche
Bauaufgaben und
verschiedene Ein-
satzmöglichkeiten
von

*Mauersteinen
eingegangen.*

*Alle
Planzeichnungen
wurden von der
Edition DETAIL
eigens für das
Buch erstellt
und ermöglichen*

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Manual

*Vergleiche auf
einem*

einheitlich

hohen Niveau.

*The Structural
Engineer*

*Architectural
Detailing*

Mauerwerk-

Kalender 2021

Mauerwerk Atlas

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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

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Manual
Birkhauser

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

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Construction Manual Birkhäuser

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

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Construction

of each material
Manual
explores the

advantages and
Birkhauser
disadvantages of
using specific
materials and
construction

assemblies, while
helping readers
discover how to make
every building element
count. In addition,
Materiality and

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Interior Construction:

Manual

Birkhäuser

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

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Manual
Birkhauser

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

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Construction
Manual
Birkhauser

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

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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.

Advances in Civil Engineering and Building Materials presents the state-of-

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the-art development

in: - Structural

Engineering - Road &

Bridge Engineering -

Geotechnical

Engineering -

Architecture & Urban

Planning -

Transportation

Engineering -

Hydraulic

Engineering -

Engineering

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Mechanics -
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Construction
Technology - Building
Materials -
Environmental
Engineering -
Computer Simulation
- CAD/CAE Emphasis
was given to basic
methodologies,
scientific development

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and engineering
applications.
Birkhauser

Advances in Civil Engineering and Building Materials will be useful to professionals, academics, and Ph.D. students interested in the above mentioned areas.

Diese Festschrift gibt einen aktuellen

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Construction

Überblick über
Entwicklungen im
gesamten Bereich des
konstruktiven

Ingenieurbaus, der
dem Massivbau
zugeschrieben wird.

Kompetenz auf allen
Gebieten des

Massivbaus ist unter
Professor Zilch am

Institut für Massivbau
der TU München

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erreicht. Die Autoren sind daher Doktoranden von Herrn Professor Zilch sowie viele Kollegen aus dem deutschsprachigen Raum, die dem Massivbau verbunden sind. Entsprechend breit gefächert sind die Themen: Bemessung/Berechnung -

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Brückenbau -

Baustoffe/Bauteile -

Mauerwerk -

Verstärken -

Bauwerke.

Design-Tech

Materiality and

Interior Construction

Sustainable Timber

Design

Vom Rohmaterial zum

Bauwerk

Massivbau in ganzer

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Construction

Breite

International

Encyclopedia of

Housing and Home

*Until now, the few
existing systematic
texts on*

construction

materials have

primarily been

directed at building

engineers. An

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Construction

*overview for
architects, which
also considers the*

*importance of
construction*

materials in the

*sensory perception
of architecture—in*

cluding tactile

qualities, smell,

color, and surface

structure—has not

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Construction
Manual

been available.

*With the
publication of the
Construction
Materials Manual,
all that has
changed. As a
basic work aimed
equally at the
questions and
perspectives of
architects and*

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Construction

*building engineers,
it will bring
together all of the
above-mentioned
viewpoints. It
addresses
fundamental
questions of
sustainability,
including life-span,
environmental
impact, and*

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Construction

material cycles,

while also

presenting material

innovations. All of

the principal

conventional and

innovative

construction

materials are

comprehensively

documented, with

attention to their

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*production,
manufacture,
fabrication,
treatment,
surfaces,
connections, and
characteristics.
International
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ionen. Hierin
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gegliedert und
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und
Berufsanfängern in
einem Band das
nötige technische
und konstruktive
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form or

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