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# Best Of Detail Beton Concrete

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best of Detail: Wohnen/Housing

Best of Detail

Modern Concrete Construction Manual

Concrete

The Cement-Worker's Hand-Book

Detail in Contemporary Concrete Architecture

The Rhetoric of Pier Luigi Nervi

Significance of Tests and Properties of Concrete and Concrete-Making Materials

Structural Fire Performance of Contemporary Post-tensioned Concrete Construction

Concrete Approximations

Green Building with Concrete

Non-Destructive Assessment of Concrete Structures: Reliability and Limits of Single and Combined Techniques

Concrete Pavement Design, Construction, and Performance

Build and Repair with Concrete

Concrete Pavement Design Guidance Notes

Seagoing and Other

Concrete

Proceedings of Italian Concrete Days 2016

Concrete and Constructional Engineering

Concrete Structure Management - Guide to Ownership and Good Practice

Concreting in Cold Weather

Concrete Surfaces

Sustainable Materials in Building Construction

Raw Concrete

Design of Normal Concrete Mixes

Concrete

Living With Marginal Aggregates

The Concrete House and Its Construction

Proceedings of Italian Concrete Conference 2022

Concrete for House, Farm, & Estate (Classic Reprint)

Concrete Garages

A Practical Guide to Microstructural Analysis of Cementitious Materials

Modernisation, Mechanisation and Industrialisation of Concrete Structures

Concrete for the Modern Age Developments in materials and processes

Reinforced Concrete Design

Practical Concrete-block Making

Concrete and Reinforced Concrete

Observations on Limes, Calcareous Cements, Mortars, Stuccos, and Concrete

Parkside House, Epsom

Precast Concrete Structures

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**LANE SIMONE**

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best of Detail: Wohnen/Housing Springer  
This book gives information on non destructive techniques for assessment of concrete structures. It synthesizes the best of international knowledge about what techniques can be used for assessing material properties (strength) and structural properties (geometry, defects...). It describes how the techniques can be used so as to answer a series of usual questions, highlighting their capabilities and limits, and providing advices for a better use of techniques. It also focuses on possible combinations of techniques so as to improve the assessment. It is based on many illustrative examples and give in each case references to standards and guidelines.

**Best of Detail** John Wiley & Sons  
Building with precast concrete elements is one of the most innovative forms of construction. This book serves as an introduction to this topic, including examples, and thus supplies all the information necessary for conceptual and detailed design.

**Modern Concrete Construction  
Manual** Getty Publications

This book presents a selection of recent research works that provide best practice solutions, case studies and practical advice on the implementation of sustainable construction techniques. The topics covered include innovations in building sustainability assessment, sustainable construction and materials, service-life prediction, construction 4.0, digitalization of the construction process, and circular economy. Reviewing the current state of knowledge, the book will benefit scientists, students,

practitioners, lecturers and other interested parties in a range of scientific and engineering disciplines, e.g. civil, materials and mechanical engineering.  
Concrete Forgotten Books

During his long career, Pier Luigi Nervi has explored the potential of concrete through the cast-in place and the prefabrication of elements in reinforced concrete or in ferro-cement, the material he invented and patented during the war. All of his best known works, such as the Berta Stadium, the hangars built in Orivieto, Orbetello and Torre del Lago Puccini, the Halls of the Turin Exposition Center, the Unesco buildings, the Little Sport Palace and the Papal Audience Hall represent an important chapter in the history of architecture, structure and construction of the twentieth century. The passion of Nervi for the manufacturing process of the concrete and formworks is examined in a systematic manner within the volume. The authors illustrate the creative process put in place by Nervi through the examination of documents never even studied in other essays, unpublished designs, drawings, specifications, photographs of the yards and correspondence with colleagues and collaborators.

**The Cement-Worker's Hand-Book**  
Red Globe Press

Excerpt from The Cement-Worker's Hand-Book: Covering More Than Fifty Most Important Subjects on Cement and Its Uses in Construction According to Dr. Michaelis. A noted cement expert, the chemical analysis of good cement when burned is as follows: 62% to 67% lime, and 33% to 29% of silicates. This allows 4% for accessories. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This

book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Detail in Contemporary Concrete Architecture fib Fédération internationale du béton

This volume presents a wide-ranging review of the latest developments in concrete technology that have been largely missing from the global conference circuit. It is the first major international event under the auspices of the Institute of Concrete Technology (ICT) and is appropriately located in the Middle East at the heart of a construction boom. Themes covered include admixture technology, durability, mix design, special cements and supplementary materials, reinforced concrete and sustainability. The 39 papers provide interesting theory and applicable practice blended with research findings – from the application of 3D printing to performance-based specifications and the role of concrete in the development of Oman – to produce a volume of value to many engineers and technologists. Founded in 1972, The Institute of Concrete Technology (ICT)'s mission is to preserve and promote concrete technology as a recognised engineering discipline and consolidate the professional status of practising concrete technologists worldwide. It is the concrete sector's professional

development body, operating internationally, with some 500 members in more than 30 countries. It is an awarding body for qualifications in concrete technology and a facilitator of continuing professional development (CPD) and networking opportunities. Our partner in this conference, The Military Technical College in Muscat, Oman, was established with the intent of becoming a Center of Excellence in engineering education. Located in one purpose-built, state-of-the-art, well-resourced center, the intent is that MTC will be amongst the world's best in the field of military and applied non-military technological education and training providers in the world.

The Rhetoric of Pier Luigi Nervi Forgotten Books

This publication describes the design and construction of the medium-sized office project of Parkside House in Epsom. Sections include specification, design and procurement, construction and project details. It explains why the design-and-build contractor chose in-situ reinforced concrete for the double basement and frame, and how it proved to be the best option for this traditional-looking building.

*Significance of Tests and Properties of Concrete and Concrete-Making Materials* Whittles Publishing

This comprehensive design guide summarizes current developments in the design of concrete pavements. Following an overview of the theory involved, the authors detail optimum design techniques and best practice, with a focus on highway and infrastructure projects. Worked examples and calculations are provided to describe standard design methods, illustrated with numerous case studies. The author provides guidance on how to use each

method on particular projects, with reference to UK, European and US standards and codes of practice. Concrete Pavement Design Guidance Notes is an essential handbook for civil engineers, consultants and contractors involved in the design and construction of concrete pavements, and will also be of interest to students of pavement design.

*Structural Fire Performance of Contemporary Post-tensioned Concrete Construction* Forgotten Books  
 Modernisation, Mechanisation and Industrialisation of Concrete Structures discusses the manufacture of high quality prefabricated concrete construction components, and how that can be achieved through the application of developments in concrete technology, information modelling and best practice in design and manufacturing techniques. *Concrete Approximations* Forgotten Books

Excerpt from *Seagoing and Other: Concrete Ships* The aim of the author has been to present a true record of the principal seagoing concrete ships actually built up to the present, and to analyse the merits of these ships in comparison with ships built of steel and wood. The main part of this book is based on personal experience gained in the construction of about thirty vessels of concrete during the past five years. The information referring to ships built by others has been obtained partly through correspondence with the designers, builders, or owners, and partly from statements published by them in the engineering press. As far as possible, facts have been ascertained from official documents, and reference to the source of information is made in each case The calculations are condensed in the Appendix and have,

been avoided in the general text in order to facilitate the reading for shipping people and others, who will play an important part in the further development of the new type of ships without being concerned in the technical side of the question. The usual methods of calculating displacement, speed, etc., found in standard works on naval architecture, have been omitted, as they are practically identical for concrete ships. Numerous technical papers and articles on concrete ships have appeared in the press, but unfortunately the hopes or opinions expressed have frequently been based on anticipation rather than on actual experience. The result has been a mass of conflicting reports which have caused much confusion on the subject. If the present book should aid in clearly establishing the true status of the best type of seagoing concrete ship today, and thus form a basis for further development, the author's chief object will be accomplished. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

#### **Green Building with Concrete**

Forgotten Books

Excerpt from *Concrete Garages: The*

Fireproof Home for the Automobile With the advent of the automobile and its growing popularity, especially among the people living in suburban towns, there has come a demand for a new class of building - the private garage. The necessary storage of oils, gasoline and other combustible materials, makes the garage a veritable firetrap, unless a fireproof building is erected. Concrete, by reason of its adaptability to varying conditions, is the cheapest satisfactory fireproof building material, and the absurdity of storing a valuable automobile in a building liable to burn at any moment, when, for a small difference in price, a fraction of the cost of the automobile, a fireproof building can be built, is readily apparent. Many automobile owners have realized this situation, and the illustrations in this book show a few simple designs in concrete garages which have been built for the proper housing of automobiles and the protection of the property. It is hardly necessary to say that wood is not a proper material for the construction of garages. Moreover, wood floors become soaked with oil and quickly rot tires. Aside from being inflammable, the high cost of lumber and of the skilled labor necessary renders the difference in price between wood and concrete a negligible quantity. Brick work and masonry are as a rule very much more expensive than concrete, while offering no additional advantages. There are several ways of using concrete in garage construction, each of which will give good results, the best methods being determined largely by local conditions, such as the supply of skilled or unskilled labor and the quality of material to be had. Simple one-story garages can be constructed without difficulty under the direction of a good foreman, but for the more elaborate

buildings and those of more than one story, an architect or engineer thoroughly familiar with concrete construction should be employed. This is essential when reinforced concrete floors are to be built. The following methods of building concrete garages are the most popular, and used either singly or in combination will give satisfactory results. 1. - Mass or reinforced concrete. 2. - Concrete hollow tile. 3. - Concrete block. 4. - Pipe frame with wire lath and stucco. 5. - Wood stud frame and stucco. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Non-Destructive Assessment of Concrete Structures: Reliability and Limits of Single and Combined Techniques Walter de Gruyter

The second edition of this best-selling book remains the standard guide on concrete mix design. Amendments have been made to allow for changes in the terminology and materials used.

Concrete Pavement Design, Construction, and Performance CRC Press

More and more of today's homeowners are taking an active role in the upkeep of their homes and property. And although

the average do-it-yourselfer won't hesitate to pick up a hammer or paintbrush, a surprising number of people have the notion that concrete and masonry work is much too difficult and best left to professionals. The QUIKRETE Companies have written this book to show that you don't have to be a professional mason to produce outstanding results with concrete. By using quality masonry products and following proven techniques, professional results can be achieved. Whether you want to lay a simple concrete slab, build an elaborate garden fountain, or repair a damaged concrete surface, this book will show you how to plan the job and how to complete it successfully.

#### **Build and Repair with Concrete** VCH

Excerpt from Concrete for House, Farm, & Estate Architect and Builder. There is evidence on all Sides that in Great Britain we have not fully grasped the advantages that concrete gives. There are few builders that can afford to neglect the cheapest and best methods, and concrete can in a variety of ways be blended into building construction. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of

such historical works.

#### Concrete Pavement Design Guidance

Notes Random House

'Brilliant' Elain Harwood 'Part history, part aesthetic autobiography, wholly engaging and liable to convince those procrastinators sitting (uncomfortably) on the concrete fence' Jonathan Meades 'A learned and passionate book' Simon Bradley, author of The Railways 'A compelling and evocative read, meticulously researched, and filled with insight and passion' Kate Goodwin, Head of Architecture, Royal Academy of Arts The raw concrete buildings of the 1960s constitute the greatest flowering of architecture the world has ever seen. The biggest construction boom in history promoted unprecedented technological innovation and an explosion of competitive creativity amongst architects, engineers and concrete-workers. The Brutalist style was the result. Today, after several decades in the shadows, attitudes towards Brutalism are slowly changing, but it is a movement that is still overlooked, and grossly underrated. Raw Concrete overturns the perception of Brutalist buildings as the penny-pinching, utilitarian products of dutiful social concern. Instead it looks a little closer, uncovering the luxuriously skilled craft and daring engineering with which the best buildings of the 1960s came into being: magnificent architectural visions serving clients rich and poor, radical and conservative. Beginning in a tiny hermitage on the remote north Scottish coast, and ending up backstage at the National Theatre, Raw Concrete embarks on a wide-ranging journey through Britain over the past sixty years, stopping to examine how eight extraordinary buildings were made - from commission to construction - why



they have been so vilified, and why they are beginning to be loved. In it, Barnabas Calder puts forward a powerful case: Brutalism is the best architecture there has ever been, and perhaps the best there ever will be.

#### Seagoing and Other Building Research Establishment

Wohnen ist individuell: Jeder hat andere Vorstellungen und Wünsche vom Wohnen und durch die Art zu Wohnen äußert sich sein Lebensstil. Wohnen heißt „zu Hause“ sein, wo man sich im Idealfall wohlfühlt. Zum Thema Wohnen existieren zahlreiche Studien über Standards, Entwicklungen und Trends, die die Bedürfnisse von Menschen analysieren und vergleichen. Mit den Bedürfnissen aber wandeln sich im Laufe der Jahre auch die Standards und Trends. Und auch der globale und demografische Wandel unserer Gesellschaft ändert die Wohnformen, Flexibilität wird zu einem maßgeblichen Kriterium. Zum Thema Wohnen gehört aber auch die Einbindung in die Umgebung. Insbesondere in Städten leben viele Menschen auf engem Raum, es gibt wenig individuelle Freiflächen und viele gemeinschaftlich genutzte Zonen. Daher ist es umso wichtiger, dass Planer Ideen entwickeln, die dem Bedürfnis der Menschen nach einem ausgewogenen Maß von individuellem und gemeinschaftlichem Raum, auch hinsichtlich der Freiflächen, entsprechen. Die Publikation bündelt die Highlights aus DETAIL zum Thema Wohnen. Ein umfangreiches Werkverzeichnis gelungener Projektbeispiele rundet den Einblick in die verschiedenen Wohnformen ab und bietet neben dem theoretischen Unterbau vor allem Inspiration und nicht zuletzt jede Menge an konstruktiven Lösungen.

**Concrete** Applied Research & Design

Concrete is ubiquitous but contentious: culturally, environmentally, and often politically. Yet, the architecture it produces across fields of practices remains pertinent to the architectural discipline and its history. Having been incessantly normalized, misused and abused by different stakeholders and agendas, some of its material attributes still remain very much untapped until now. Liquid Pressure, one of concrete's most vigorous properties, is always short-lived and can hardly be contained. Only its counterpart, known as the formwork or false-work in the building industry, is best at influencing and redirecting the course of its active forces. Concrete and formwork are both the live catalyst and dichotomy explored in this book, through which new forms of spatial organizations are once more made possible. To experiment with concrete is to actively engage with its live properties, in an irreversible dance in which the concrete reacts to the formwork's materials. In this book, two key projects are laid bare, manifesting a shift in the work from an early preoccupation with material responsiveness, to one that additionally addresses concepts of spatiality and its relation to the proposed idea of augmented materiality.

#### **Proceedings of Italian Concrete**

**Days 2016** Epfl Press

Excerpt from The Concrete House and Its Construction The demand for fire-resisting, durable and sanitary construction has been the dominant note in most that has been said and written on the subject of architecture during the last decade. The American dwelling of the best class is a model of convenience, comfort and beauty, and these attributes may be found even in houses of moderate cost. But with rare exceptions,

three fatal defects accompany modern construction. Modern houses are not fire-resisting, not durable and, to a lesser degree, not sanitary. Knowledge of these facts, coupled with that newly awakened, irresistible demand for vastly increased economy and efficiency in the nations industrial and social development, has led American architects to concentrate every effort toward the solution of the problem. They found that the highest standard of fire-resisting construction was so closely allied with extreme durability and sanitary excellence as to embrace these three important structural reforms under that single head. Iron and steel did not, unless protected, represent fire-resisting construction, and in this investigation many other materials were rejected as non-fireproof in themselves. In the average house, fire starting in the cellar soon transforms the building into a smoking ruin. Only the eternal vigilance of our fire departments, maintained at a cost of more than \$100,000,000 annually, prevents the destruction of thousands of homes each year. A study of the fire losses of this and European countries shows our annual loss to be \$2.51 per capita, while in the cities of the six leading nations of Europe it is only 33 cents. That fire-proof construction is the exception rather than the rule, is due mainly to a mistaken idea of its cost. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the

original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

*Concrete and Constructional Engineering*  
Springer

The first title in a new series aimed at sharing best practices in the conservation of modern heritage. This timely volume brings together fourteen case studies that address the challenges of conserving the twentieth century's most ubiquitous building material—concrete. Following a meeting of international heritage conservation professionals in 2013, the need for recent, thorough, and well-vetted case studies on conserving twentieth-century heritage became clear. *Concrete: Case Studies in Conservation Practice* answers that need and kicks off a new series, *Conserving Modern Heritage*, aimed at sharing best practices. The projects selected represent a range of building typologies, building uses, and project sizes, from the high-rise housing blocks of Le Corbusier's *Unité d'Habitation* and public buildings such as the London's National Theatre to small monuments such as the structures at Dudley Zoological Gardens and a sculpture by Donald Judd. The projects also represent a range of environmental and economic contexts. Some projects benefit from high levels of heritage protection and access to funding, while others have had to negotiate conservation with stringent cost limitations. All follow a rigorous conservation approach, beginning with a process of investigation and diagnosis to identify causes and target repairs and balancing these with conservation requirements to preserve significance.



Written by architects, engineers, conservators, scholars, and other professionals in the field, these highly detailed and well-illustrated studies demonstrate sound practice, rigorous methodology, and technological innovation and represent the vibrancy of the field as it stands today. This book has something to offer anyone interested in the conservation of modern heritage.

*Concrete Structure Management - Guide to Ownership and Good Practice* ASTM International

This book gathers the best peer-reviewed papers presented at the Italian Concrete Days national conference, held in Rome, Italy, on October 27-28, 2016. The conference topics encompass the aspects of design, execution,

rehabilitation and control of concrete structures, with particular reference to theory and modeling, applications and realizations, materials and investigations, technology and construction techniques. The contributions amply demonstrate that today's structural concrete applications concern not only new constructions, but more and more rehabilitation, conservation, strengthening and seismic upgrading of existing premises, and that requirements cover new aspects within the frame of sustainability, including environmental friendliness, durability, adaptability and reuse of works and / or materials. As such the book represents an invaluable, up-to-the-minute tool, providing an essential overview of structural concrete, as well as all new materials with cementitious matrices.

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