



Concrete Architecture And Design

Catherine Croft



Concrete Architecture And Design:

Concrete Manuela Roth,2012 Hardly any other material unites such contradictory associations stigmatized on the one hand celebrated on the other concrete is still in the spotlight Its almost inexhaustible potential and ever new applications and possibilities make it a most valuable building material Especially in combination with other building ware it displays an astonishing flexibility of utilization Recent developments leading to new possibilities have inspired architects and designers to innovative and exciting solutions The contemporary projects presented in this volume provide impressive testimony to the many faces of concrete and how much design potential it possesses The publication shows with impressive images and distinct texts the ongoing relevance and inimitable fascination of concrete Concrete Architecture Martin Möllmann,2002 Many contemporary building projects use pliant and economical concrete as their main structural material yet its use requires technical expertise knowledge and experience This book analyses 12 projects which cover both the practical and aesthetic aspects of the subject **Concrete Design** Sarah Gaventa,2006 While most people think of concrete as a material for sidewalks roads and industrial uses it can work wonderfully in the home too adding strength texture and utility Take an unprecedented look at the myriad design possibilities of concrete in the domestic space and see how beautiful it can be Featuring magnificent examples of work by such star designers as Santiago Calatrava Herzog the M bus House in the Netherlands based on a M bus strip a sculptural loft apartment in the UK and colored concrete towers that make a powerful visual statement in Mexico *Concrete Architecture* Catherine Croft,2004 Inspiration for architects and urban planners this text presents a re evaluation of a material finally coming into its own in the 21st century concrete The text is illustrated with projects from some of the biggest name architects around *Concrete Architecture* ,2006 Detail in Contemporary Concrete Architecture David Phillips,Megumi Yamashita,2012-10-26 Detail in Contemporary Concrete Architecture provides analysis of both the technical and the aesthetic importance of details in modern concrete architecture Featuring the work of renowned architects from around the world this book presents 49 of the most recently completed and influential concrete designs for both residential and commercial architecture The projects are presented in clear and concise layouts over four pages All of the drawings are styled consistently and presented at standard architectural scales to allow for easy comparison Each project is presented with colour photographs site plans and sections and elevations as well as numerous construction details There is also descriptive text detailed captions and in depth information for each project *Concrete* Martin Peck,2006-09-15 This book provides the basic information needed to work with the concrete with special attention to the architect s role in planning and construction management It describes current trends in concrete technology and the development of innovative new types of concrete with firsthand reports by architects in the field *Sustainable Concrete Architecture* David Bennett,2010 *Sustainable Concrete Architecture* provides designers with a tool to help calculate the total embodied CO2 in their building designs Highly illustrated and detailed in scope the book combines comprehensive technical

analyses of concrete materials with useful case studies demonstrating the value of the material in low energy green building

Part 1 Technology takes a detailed technical look at embodied CO2 in different forms of concrete including cement cement replacements formwork precast reinforcements aggregates and concrete blocks The manufacturing and distribution processes of each material product are described and embodied CO2 figures are given CO2 audit figures are also included for materials which have been subject to an audit Embodied CO2 tables construction industry CO2 audit figures and DEFRA conversion tables are included in the Appendix to Part 1 The book then goes on to cover the heating and cooling of buildings and how to use concrete s thermal mass to reduce long term energy consumption Part 2 Case Studies contains 24 superbly illustrated detailed case studies which show the materials covered in Part 1 being used to create visually exciting efficient new buildings Building types covered include residential buildings offices education buildings and visitor centres Each case study includes a statement on the building s energy efficiency how it was specified and designed and an environmental impact study which details the SAP ratings where applicable Publisher s description **Concrete Design** Paul McMullin,Jonathan Price,Esra Hasanbas Persellin,2016-03-17 Concrete Design covers concrete design fundamentals for architects and engineers such as tension flexural shear and compression elements anchorage lateral design and footings As part of the Architect s Guidebooks to Structures Series it provides a comprehensive overview using both imperial and metric units of measurement Written by experienced professional structural engineers Concrete Design is beautifully illustrated with more than 170 black and white images contains clear examples that show all design steps and provides rules of thumb and simple tables for initial sizing A refreshing change in textbooks for architectural materials courses it is an indispensable reference for practicing architects and students alike As a compact summary of key ideas it is ideal for anyone needing a quick guide to concrete design Concrete: the Vision of a New Architecture Peter Collins,1959

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