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Steel Reinforcement Detailing Manual

This book should be of interest to construction site managers and supervisors; concrete technologist; testing organisations. It covers steel

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reinforcement, batching and mixing, readymix, handling and transporting, pumping, placing, curing, QC, precast, prestressed, special techniques, repair and some background mathematics.

This book compiles state-of-the-art information on the behavior,

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analysis, and design of concrete beams containing transverse openings. Discussions include the need, effects, and classification of openings as well as the general requirements for fulfilling design pure bending, combined bending, and shear - illustrated with

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numerical examples torsion alone or in combination with bending and shear large rectangular openings as well as opening size and location on beam behavior methods for analyzing ultimate strength and serviceability requirements effects of torsion in beams large openings in continuous

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beams and their effects on possible redistribution of internal forces as well as guidelines and procedures for the design of such beams effect of prestressing on the serviceability and strength of beams with web openings design against cracking at openings and ultimate loads Concrete Beams

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with Openings serves as an invaluable source of information for designers and practicing engineers, especially useful since little or no provision or guidelines are currently available in most building codes.

*SP-66(04): ACI Detailing
Manual-2004*

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PCI Design Handbook

*Connections Between Steel and
Other Materials*

Supervision of Concrete Construction
2

*Design and Detailing of Low-Rise
Reinforced Concrete Buildings*
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The Structural Engineer's Pocket Book British Standards Edition is the only compilation of all tables, data, facts and formulae needed for scheme design to British Standards by structural engineers in a handy-

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sized format. Bringing together data from many sources into a compact, affordable pocketbook, it saves valuable time spent tracking down information needed regularly. This second edition is a

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companion to the more recent Eurocode third edition.

Although small in size, this book contains the facts and figures needed for preliminary design whether in the office or on-site. Based on UK

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conventions, it is split into 14 sections including geotechnics, structural steel, reinforced concrete, masonry and timber, and includes a section on sustainability covering general concepts, materials, actions

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and targets for structural engineers.

Detailing is an essential part of the design process. This thorough reference guide for the design of reinforced concrete structures is largely

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based on Eurocode 2 (EC2), plus other European design standards such as Eurocode 8 (EC8), where appropriate. With its large format, double-page spread layout, this book systematically details 213

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Edition: The Steel Construction
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placing reinforcing steel for reinforced concrete construction. Includes suggested specifications for reinforcing steel. Chapter 3 on bar supports is commonly referenced in project specifications. New material includes a list of specific

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information on structural drawings that is required by the ACI 318 Building Code and updated illustrations of the markings on Grade 60 and Grade 75 reinforcing bars. Every design firm, construction company and inspection office that is involved

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with reinforced concrete needs to own a copy.

Comprehensive, up-to-date coverage of reinforced concrete slabs-from leading authorities in the field. Offering an essential background for a thorough understanding of building code

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requirements and design procedures for slabs, Reinforced Concrete Slabs, Second Edition provides a full treatment of today's approaches to reinforced concrete slab analysis and design. Now brought up to date with a wealth of new material on

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(equivalent frame, direct design, and strip methods) and theories (elastic, lower bound, and yield line theories). Later chapters discuss other important issues, including shear strength, serviceability, membrane action, and fire resistance.

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discusses reinforced concrete members and provides techniques for sizing the cross section, calculating the required amount of reinforcement, and detailing the reinforcement. Design procedures and flowcharts guide

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Requirements for strength and
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structural steelwork design was first published in 1956. Since then, it has sold many thousands of copies worldwide. The fifth edition is the first major revision for 20 years and is the first

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The quality and testing of materials used in construction are covered by

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reference to the appropriate ASTM standard specifications. Welding of reinforcement is covered by reference to the appropriate AWS standard. Uses of the Code include adoption by reference in general building codes, and earlier editions

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