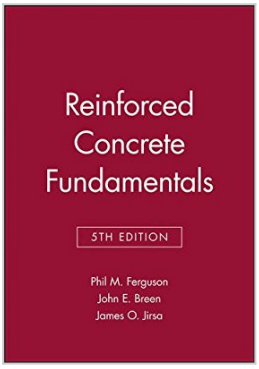

Reinforced Concrete Fundamentals, 5th Edition

By Phil M. Ferguson, John E. Breen, James O. Jirsa

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This Fifth Edition maintains the basic Ferguson approach in which design procedures stem from and provide the basis for a clear understanding of the behavior of reinforced concrete. Behavior of reinforced concrete members and assemblages at every load stage is illustrated with illustrations and photos, and calculation models that relate to the physical behaviors are provided to help students and practitioners recognize and assess various design situations. To avoid confusion, many of the examples now use customary or English units, rather than SI units as in the Fourth Edition. This edition conforms to the technical changes in the '83 and '86 revisions to the ACI Building Code. In this edition, service load analysis of stresses, computuations of deflection and distribution of reinforcement to control crack widths have been incorporated with the sections that treat analysis and design of flexural members. Material relating to seismic design has been revised and expanded, and more emphasis has been placed on developing conceptual models for design.

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Editorial Review

From the Inside Flap
Through four editions, Phil M. Ferguson’s Reinforced Concrete Fundamentals has become a recognized classic, known for its clarity and thoroughness. There is, in fact, no other reinforced concrete text available as useful for both beginners and experienced designers. Now a fifth edition, reflecting the 1983 and 1986 ACI Code revisions, brings Reinforced Concrete Fundamentals completely up to date while retaining Ferguson’s popular approach. Changes include a return, for most examples, to the use of English units to reflect current practice, reorganization of material for greater clarity, revision and expansion of seismic design-related topics, and an emphasis on conceptual models for design. There are entirely new chapters on design and detailing in the central joint regions, and on shear wall design. In addition, substantial revisions have been made in the basic approach to the design of slender columns in order to emphasize the secondary deflection patterns, and in the treatment of splices, reinforcement development and hooks in order to reflect the basic behavior and failure patterns rather than just arbitrary code rules. The coverage of seismic design, interaction curves for eccentrically loaded columns, and direct design procedures for two-way slabs has been revised as well. As in previous editions, Reinforced Concrete Fundamentals imparts a clear understanding of the behavior of reinforced concrete members and assemblages with an emphasis on the "flow" of the design process. Throughout, behavior at all load stages is illustrated by figures and photos. A set of working appendices delivers a summary treatment of service load analysis for flexure, and design tables and curves. Maintaining the high standards of its popular predecessors, Reinforced Concrete Fundamentals, Fifth Edition makes up an ideal reference, refresher, and desktop resource for civil engineers needing a clear, modern approach to concrete design.

From the Back Cover
Design of Prestressed Concrete Second Edition Arthur H. Nilson This revision of a popular text discusses the behavior, analysis, and design of prestressed concrete structures. Changes in the new edition include a new emphasis on partially prestressed concrete members, flexural strength calculations, deflection calculations, and crack width calculations, along with new information on high-strength materials and more. 1987 (0 471-83072-0) 592 pp. Design of Prestressed Concrete Structures Third Edition Tung Yed Lin and Ned H. Burns Lin and Burns develop the basic ideas of prestressed concrete by joining the fundamentals of material mechanics with high-quality materials (steel and concrete). Analysis and design are stressed in this fully updated third edition which incorporates the latest theoretical and experimental research. Basic principles are illustrated by a wealth of short numerical problems—a feature that has ensured the continuing popularity of this bestseller. 1981 (0 471-01898-8) 646 pp.

About the Author
About the authors The late Phil M. Ferguson was The T. U. Taylor Professor of Civil Engineering at the University of Texas at Austin. He was the sole author of the previous four editions of Reinforced Concrete Fundamentals. John E. Breen holds the Nasser I. Al-Rashid Chair in Civil Engineering at the University of Texas at Austin, where he was Director of the Phil M. Ferguson Structural Engineering Laboratory from 1967-85. He received his PhD at the same institution in 1962. James O. Jirsa is The Phil M. Ferguson Professor in Civil Engineering at the University of Texas at Austin and Director of the Phil M. Ferguson Structural Engineering Laboratory. He received his PhD from the University of Illinois in 1963.

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