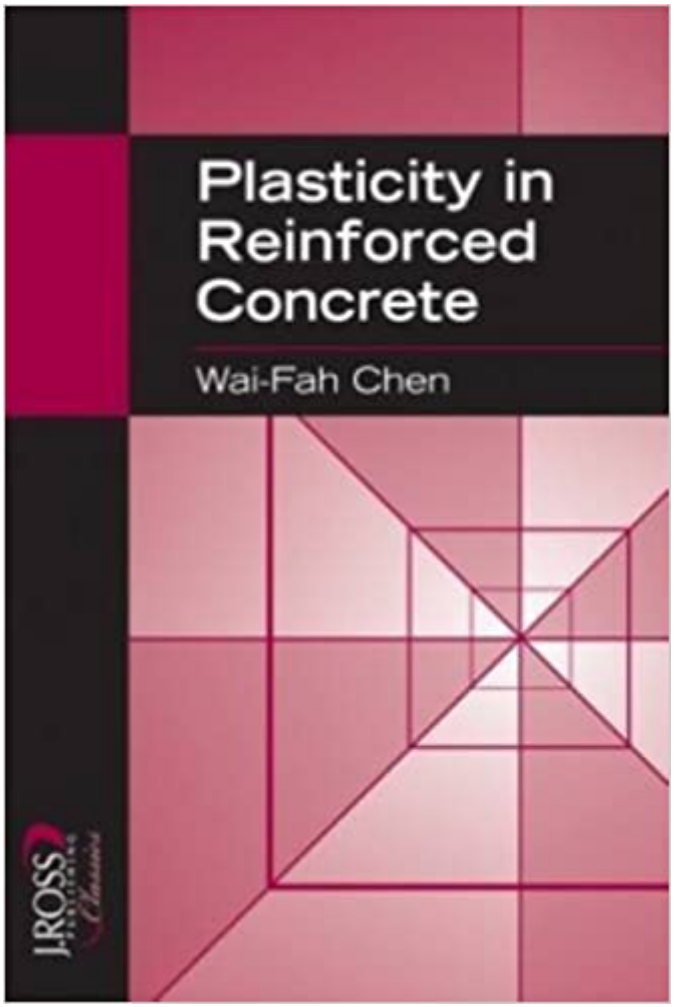
Plasticity In Reinforced Concrete (J. Ross Publishing Classics)



Synopsis

This indispensable reference presents a unified treatment of mathematical models of concrete structural analysis. In Part I, the author considers the experimental data regarding stress and strain characteristics of concrete under biaxial and multiaxial stress states and presents empirical equations for modulus and fracture strength. Part II discusses concrete elasticity, generalized failure, and fracture criteria, while the final part addresses concrete plasticity with applications of limit analysis and finite element analysis to concrete and reinforced structures. An unabridged J. Ross Publishing republication of the edition published by McGraw-Hill, Inc., New York, 1982, 474pp. Key Features - Offers a comprehensive review of the advantages and limitations of constitutive equations and failure criteria with suggestions for improvements and refinements - Provides test results of the mechanical properties of concrete and summaries of the generally accepted experimental results in the field - Includes worked examples, chapter summaries, a glossary, chapter references, and a bibliography of finite element applications

Book Information

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Customer Reviews

Dr. Wai-Fah Chen was Professor and Dean of the College of Engineering at the University of Hawaii from 1999 to 2006. From 1976 to 1999, he was Head of the Department of Structural Engineering at Purdue University and George E. Goodwin Distinguished Professor of Civil Engineering; prior to that he taught at Lehigh University. The author of more than 300 peer-reviewed publications and author

or co-author of 20 books, his primary areas of research are constitutive modeling of engineering materials, soil and concrete plasticity, structural connections, and structural stability. He received his Ph.D. from Brown University. He is a member of the U.S. National Academy of Engineering and an Honorary member of the American Society of Civil Engineers.

This book was helpful for me cause my research topic is the non-linear behaviour of reinforced concrete.. I didn't read a lot in this book till now but I browsed the table of contents and found it is helpful

This book tackled very essential issue in concrete modeling. The constitutive laws for concrete are elaborated in details and very helpful to the students and researchers in concrete, soil and rock modeling. I strongly recommend it.

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