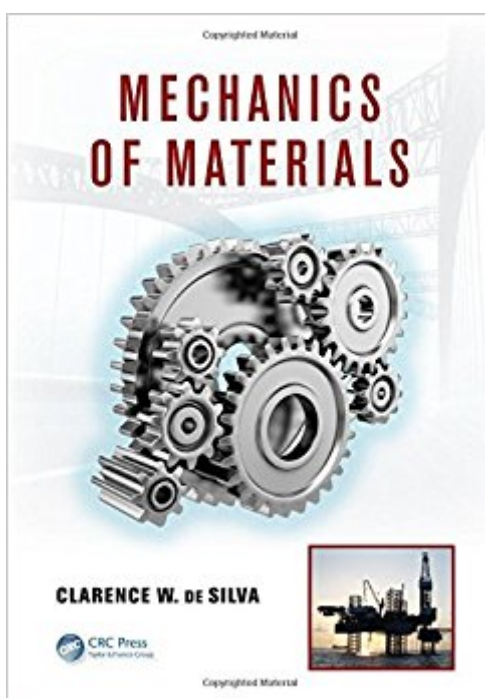The book was found

Mechanics Of Materials (Computational Mechanics And Applied Analysis)

Synopsis

A systematic presentation of theory, procedures, illustrative examples, and applications, Mechanics of Materials provides the basis for understanding structural mechanics in engineering systems such as buildings, bridges, vehicles, and machines. The book incorporates the fundamentals of the subject into analytical methods, modeling approaches, numerical methods, experimental procedures, numerical evaluation procedures, and design techniques.   It introduces the fundamentals, and then moves on to more advanced concepts and applications. It discusses analytical methods using simple mathematics, examples and experimental techniques, and it includes a large number of worked examples and case studies that illustrate practical and real-world usage.   In the beginning of each chapter, states and summarizes the objectives and approaches, and lists the main topics covered in the chapter   Presents the key issues and formulas in a "Summary Sheet" at the end of each chapter   Provides as appendices at the end of the book, useful reference data and advanced material that cannot be conveniently integrated into the main chapters   Mechanics of Materials is a result of the author's experience in teaching an undergraduate course in mechanics of materials consisting of mechanical, manufacturing, materials, mining and mineral engineering students and in teaching other courses in statics, dynamics, modeling, vibration, instrumentation, testing, design, and control. This book is suitable for anyone with a basic engineering background. The practical considerations, design issues, and engineering techniques, and the snapshot-style presentation of advanced theory and concepts, makes this a useful reference for practicing professionals as well.

Book Information

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