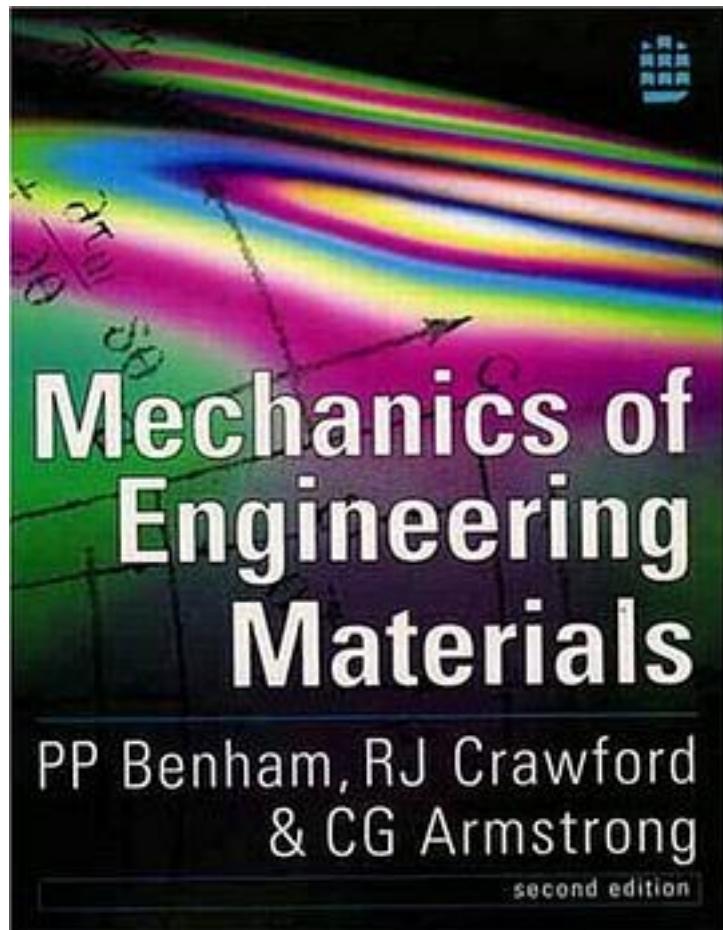


Mechanics of Engineering Materials (2nd Edition)



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Mechanics of Engineering Materials is well-established as the definitive textbook on the mechanics and strength of materials for students of engineering principles throughout their degree course. Assuming little or no prior knowledge, the theory of the subject is

developed from first principles and all topics of stress and strain analysis are covered right up to final year level. Mechanical properties such as tensile behaviour, fatigue, creep, fracture and impact are discussed and more advanced material is also included, particularly on finite element analysis, fracture mechanics and composite materials. This second edition has been brought fully up-to-date in line with today's courses. Incorporating new, two-colour illustrations throughout, the book reinforces student comprehension of the theory through numerous new worked examples and end-of-chapter problems involving real engineering situations. An important new feature of this edition is the use and illustration of computer spreadsheets throughout as a powerful problem-solving tool. Mechanics of Engineering Materials is an indispensable course text for undergraduate students of mechanical engineering, engineering science and civil engineering. It will also be a valuable reference for those studying BTEC and GNVQ courses.

作者介绍:

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