



Introduction to Engineering Plasticity

By G. K. Lal, N. Venkata Reddy

Alpha Science International Ltd. Hardback. Book Condition: new. BRAND NEW, Introduction to Engineering Plasticity, G. K. Lal, N. Venkata Reddy, Introduction to Engineering Plasticity covers the mathematical theories of plasticity that are based on hypotheses and assumptions to represent the experimental observations as generalized mathematical formulations. Following a brief introduction in the first chapter, the next three chapters of the book deal with stress and strain tensors, and stress-strain relationships followed by yield criteria and their experimental verifications in chapter five. Associated flow rules and plastic stress-strain relationships are also derived in this chapter. Chapters six and seven present the concepts of plastic anisotropy and plastic instability. The slip-line field theory as applied to plane strain problems of rigid, perfectly plastic materials is presented in chapter eight and the limit theorem is elaborated in chapter nine.



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