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paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pages Number: 0 Publisher: Harbin Engineering University Press Pub. Date :2010-09-03. This book describes the The basic theory of fracture mechanics and engineering application methods. The book is nine chapters. from 1 to 5 main linear elastic fracture mechanics explains the basic principles and calculation methods. the basic theory of elastic mechanics. fatigue crack growth. and fracture parameters commonly used standard testing methods. 6 to 9 describes the structure to prevent brittle fracture and ductile fracture of engineering practice. design methods and analytical tools. and assessment of fracture mechanics to process and quality control methods to prevent fracture. and the probability of fracture mechanics and Monte Carlo methods were brief. This book can be used as mechanical engineering colleges. power and mechanics of fracture mechanics undergraduate and graduate course materials. but also for the professional engineering and technical personnel. Contents: Introduction Chapter 1.1 crack linear elastic fracture mechanics and its impact on the strength of the classification 1.1.1 1.1.2 crack crack strength of the material and the testing results 1.1.3 crack size of the conversion of energy release rate fracture mechanics 1.2 l. 2.1 Griffith theory 1.2.3 Theory 1.2.2 Orowan ridicule fracture criterion of energy release rate and fracture mechanics stress intensity factor of 1.3 l.3.1 crack tip region of the stress field and displacement field stress intensity factor fracture criterion 1.3.2 1.3.3 deep cracks and surface crack problems l.3.4 K criterion for engineering application l.3.5 G and K 1.4 the relationship between the crack tip plastic zone and K-factor correction 1.4.1 plastic yield criterion 1.4.2 crack front yield zone the size of the plastic zone correction Chapter 1.4.3 composite crack 2.l maximum circumferential stress criterion of energy release...



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