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## modern design basis

By MENG XIAN YI

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 196 Publisher: Machinery Industry Press. Pub. Date: 2009 - 01. foundation of modern design focuses on common basic principles of modern design methods. particularly finite element method. optimization of design and reliability of the basic knowledge and mechanical engineering problem solving steps. Chapter 1 briefly describes the emergence and development of modern design and characteristics of the background; Chapter 2 describes the basic principles of the finite element method. especially in the context of construction machinery. highlighting the plane problem. bar structure. plate and shell problems. space and dynamic problem solving principles. and were combined with the popular structural analysis software ANSYS solution gives some examples; Chapter 3 describes the optimization of the basic concepts and principles. as well as several commonly used methods of optimization theory and solving steps to optimize the mechanical design of the treatment some common problems are also briefly described. illustrates the two types of mechanical structures and institutions designed to optimize the process of building mathematical models; Chapter 4 introduces the basics of reliability engineering. the reliability of mechanical parts design....



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