

Lightweight body structure design theory methods and project examples



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LIGHTWEIGHT BODY STRUCTURE DESIGN THEORY METHODS AND PROJECT EXAMPLES



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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. Pages Number: 213 Publisher: Defense Industry Pub. Date :2011-05-01 version 1. Lightweight body structure design theory. methods and project examples in order to achieve lightweight automotive body structure design as the goal. the system introduces the basic theory associated . lightweight design methods and means; engineering examples to explain the lightweight body strength and stiffness. vibration and noise. collision safety and dynamic mechanical properties of human-machine interface and other analytical and experimental methods. Lightweight body structure theoretical methods and engineering design examples can be used as vehicle engineering graduate students. senior undergraduate textbook. but also for auto companies and research institutes of technical staff to read reference. Written by Sun Lingyu compiled. Contents: Chapter 1 1.1 Overview of car body structure body functions. the evolution of materials and structural materials 1.1.1 The evolution of body function and body and frame structure 1.1.2 The evolution of 1.2 typical of modern body structure and body to withstand the manufacturing process 1.3 1.3.1 the main load of bending and torsion loads bending load 1.3.2 1.3.4 1.3.3 vertical lateral load load load 1.4 1.3.5 collision of modern body design criteria 1.5 lightweight body design of modern science and technology issues critical reference 2 Chapter lightweight body structure design theory and methods 2.1 lightweight body materials. strength of materials theory and method of selection of basic mechanical properties of materials 2.1.1 2.1.2 2.1.3 Body material model body design of the material yield strength and failure criteria 2.1.4 Body 2.2 Body material selection principle conceptual design of several commonly used methods 2.2.1 The simple structure of the surface body design frame design method 2.2.2 2.2.3 Method of mechanics of materials skeleton structure of the limit load...



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