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## AERODYNAMIC ELASTICITY THEORY (COLLEGE GRADUATE TEXTBOOK)



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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 186 Publisher: Beijing University of Aeronautics Pub. Date :2011-07-01 version 1. Wu Zhigang, etc. aerodynamic elasticity theory describes the aeroelastic the basic principles and methods. is the undergraduate textbook aeroelastic design basis for further deepening and widening. In addition to the aero-elastic static and dynamic aeroelastic stability - flutter started in-depth discussion. but also focus on the aero-elastic dynamic response of a systematic exposition. In addition. the aeroelastic analysis. experimental work occupies an important position. so the book also briefly describes the aeroelastic the test. Aerodynamic elasticity theory. as institutions of higher learning related to professional or graduate teaching reference books. reference books. and advanced undergraduates. but also for the aerospace industry and other industrial sectors structural strength. aerodynamic and flight control design officers. Contents: Chapter 1 Introduction 1.1 Overview 1.2 pneumatic pneumatic elasticity elasticity 1.3 a brief review of the development of aeroelastic phenomena described in 1.3.1 static aeroelastic phenomena 1.3.2 the basic dynamics of the basic phenomenon of aeroelastic aero-elastic mechanics of the new 1.4 1.5 the development of aeroelastic characteristics of the discipline problems and thinking exercises References Chapter 2 a brief review of structural dynamics based on Lagrangian equations 2.2 2.1 Overview 2.2.1 2.2.2 generalized coordinate and force a complete system of generalized Lagrange equations than 2.3 degree of freedom system the main vibration free vibration 2.3.1 2.3.2 2.3.3 master coordinates and coordinate multiple degrees of freedom coupled vibration - 2.4 as discussed in 2.4.1 and other elastomer vibration free torsional vibration of the beam cross-section 2.4 .2 other section 2.4.3 beam bending vibration free long straight wing torsional vibration free vibration form 2.4.4 since the orthogonality of the vibration plate 2.5 2.6...



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