



Diccionario de Mineria de La Republica Mexicana O Sea, Compilacion de Todas Las Disposiciones Legislativas y Reglamentarias Vigentes En Asuntos de Mi

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. OCLC Number: (OCoLC)52965807 Subject: Buffeting (Aerodynamics) Excerpt: . . . 7. 0 ControlLawDesignFor AlleviatingVerticalTail Buffeting Using the open-loop frequency response functions obtained during the test, control laws were designed using frequency domain compensation methods 21. These control laws were single-input, single-output control laws that utilized either a tip accelerometer or a root strain gage as the sensor to alleviate the response in the first bending mode. Because of some uncertainty in the measurement of the response created by the buffet at the worst case condition of 34 degrees angle of attack, the control laws were designed based on the open-loop frequency response functions acquired at the lower angles of attack where the buffet, and the uncertainty in the plant, were much less. The components of the active control system, shown in figure 9, include an analog-to-digital converter (AD), a digital controller 18 in which the control law is implemented, and a digital-to-analog (DA) convener. Since there were time delays associated with the digital controller and the actuator, the best approach to control law design was to take advantage of...



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