

## Deutsches Museum (1)



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## DEUTSCHES MUSEUM (1)



RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 172 pages. Original publisher: Golden, CO: National Renewable Energy Laboratory, 2006. OCLC Number: (OCoLC)172695367 Subject: Wind turbines -- Testing. Excerpt: . . . AND 2. 0 SCOPE PROJECT METHODOLOGY GOAL OF THE PROJECT The major goal of this study was to ascertain the elastic blade twist due to wind turbine operation which leads to errors in the prediction of loads and performance for three promising and representative A wind turbine rotors. secondary goal was to develop, verify, and present a practical engineering methodology for the estimation of this elastic twist on other wind turbine rotors. SEMI-EMPIRICAL APPROACH This program was divided into two parts of equal importance, experimental and theoretical. There were not enough resources in the program to permit a sophisticated engineering analysis in either area, so a practical engineering approach was taken ( Fig. and has proved efficient and effective. This allowed 24, the derivation of semi-empirical blade aeroelastic models with which to calculate the steady elastic twist. Codes: Computer I BLADE SECTION PROPERTIES I and STATIC DEFLECTION STRESSES I VIBRATION MODES BLADE Laboratory Tests: INSPECTION I EXTERNAL SIMPLE OF VIBRATION I FREQUENCY STATIC DEFLECTION UNDER LOAD and BLADE SECTIONING CLOSE INSPECTION. MODALSURVEY FIG. TRIANGULATION OF MASS ELASTIC PROPERTIES 2. 1 The structural analysis programs employ practical and verified engineering techniques for the analysis of complex composite structure beams ( Ref. The wind turbine performance programs were 3 ). developed by Solar Energy Research Institute ( SERI ), and are the standard aerodynamic codes in use in the US. industry ( Ref. The blade tests were performed at the Agricultural Research Service, Department 7 ). The test of Agriculture ( USDA ) facility in Bushland, TX, under the cooperative agreement with AEI. equipment and testing...



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