

The Naca Airfoil Series Clarkson University

Active Flow Control Over a Naca 0015 Airfoil by Synthetic Jet ActuatorsA ThesisUnsteady Aerodynamics, Aeroacoustics, and Aeroelasticity of Turbomachines and PropellersSpringer Science & Business Media

The accumulation of ice in its various forms on structures has long been recognized as a significant and costly problem for both industry and government world-wide. The purpose of this First International Workshop on Atmospheric Icing of Structures was to bring together scientists, engineers and managers from industrial and military organizations from around the world that have an interest in the accretion of ice on structures. The presumption underlying the use of 'First' in the title of the workshop is that this meeting would demonstrate the need for continued exchange of ideas, of reports of work accomplished and of future plans, and further identification of research areas requiring particular attention. The 39 papers from 10 countries presented at the workshop were organized into four technical sessions representing the various aspects of structural ice accretion studies underway. Topics included: Basic research; Physics of ice accretion; Simulation and modeling; Design-oriented research; Meteorological measurements and damage observations; and Iceload measurements and design practices. February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA).

Contains an edited collection of papers by experts from all disciplines of chaos which are the result of the International Workshop on Applications of Chaos, sponsored by the Electric Power Research Institute. Focusing on the actual and potential methodologies of the latest investigations in chaos dynamics, topics presented here run the gamut from the dynamics of electrocardiograph information and the instability of conveyor belts to the time series modeling and control of chaos.

Developments in Maritime Transportation and Exploitation of Sea Resources covers recent developments in maritime transportation and exploitation of sea resources, encompassing ocean and coastal areas. The book brings together a selection of papers reflecting fundamental areas of recent research and development in the fields of:- Ship Hydrodynamics- The first International Symposium on Unsteady Aerodynamics and Aero elasticity of Turbomachines was held in Paris in 1976, and was followed by symposia at Lausanne in 1980, Cambridge in 1984, Aachen in 1987, Bei jing in 1989, and Notre Dame in 1991. The proceedings published following these symposia have become recognized both as basic reference texts in the subject area and as useful guides to progress in the field. It is hoped that this volume, which represents the proceedings of the Sixth International Symposium on Unsteady Aerodynamics of Turbomachines, will continue that tradition. Interest in the unsteady aerodynamics, aeroacoustics, and aeroelasticity of turbomachines has been growing rapidly since the Paris symposium. This expanded interest is reflected by a significant increase in the numbers of contributed papers and symposium participants. The timeliness of the topics has always been an

essential objective of these symposia. Another important objective is to promote an international exchange between scientists and engineers from universities, government agencies, and industry on the fascinating phenomena of unsteady turbomachine flows and how they affect the aeroelastic stability of the blading system and cause the radiation of unwanted noise. This exchange acts as a catalyst for the development of new analytical and numerical models along with carefully designed experiments to help understand the behavior of such systems and to develop predictive tools for engineering applications.

This synthesis will be of interest to traffic engineers, public officials, and others interested in developing improved traffic signal timing procedures. Information has been assembled on traffic signal timing software, resources required for timing, procedures for single intersections and coordinated systems, pedestrian intervals, and fine-tuning solutions. Traffic engineers need to know the comparative requirements and effectiveness of alternative traffic signal timing techniques. This report of the Transportation Research Board describes these techniques, presents the general principles for application, including source material for more detailed information, and discusses the issues associated with traffic signal timing alternatives. It should be noted that, while traffic engineers frequently use standards developed by the American Association of State Highway and Transportation Officials, the Federal Highway Administration, or other agencies in making engineering judgments, they are always well advised to protect themselves by carefully supporting the bases of their decisions with factual findings and documenting the reasons for the decisions.

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