

Ice Accretion and Icing Technology



Robert J. Flemming

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Ice Accretion and Icing Technology Robert J Flemming, 2015-04-16 The effects of inflight atmospheric icing can be devastating to aircraft. Universities and industry have been hard at work to respond to the challenge of maintaining flight safety in all weather conditions. Proposed changes in the regulations for operation in icing conditions are sure to keep this type of research and development at its highest level. This is especially true for the effects of ice crystals in the atmosphere and for the threat associated with supercooled large drop (SLD) icing. This collection of ten SAE International technical papers brings together vital contributions to the subject. Icing on aircraft surfaces would not be a problem if a material were discovered that prevented the freezing and accretion of supercooled drops. Many options that appeared to have promising icephobic properties have had serious shortfalls in durability. This title addresses among other topics the measurement techniques and the drop physics that apply to icing certification for flight through ice crystal clouds and in supercooled large drops. Improvements in predictive techniques, scaling methods, test facilities and techniques, and rotorcraft icing.

Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1995 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.

Aeronautical Engineering, 1991

Bibliography of Lewis Research Center Technical Publications Announced in 1991, 1992 **Monthly Catalogue, United States Public Documents**, 1995 **Scientific and Technical Aerospace Reports**, 1991 Role of Wind Tunnels and Computer Codes in the Certification and Qualification of Rotorcraft for Flight in Forecast Icing Robert J. Flemming, 1994 *International Aerospace Abstracts*, 1996 **NASA SP.**, 1992 *Bibliography of Lewis Research Center Technical Publications Announced in 1992*, 1993 **91-0632 - 91-0666**, 1991 AGARD Index of Publications North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development, 1989 **Verti-flite**, 1994

Journal of the American Helicopter Society American Helicopter Society, 1995 **Vertiflite**, 1993 **Annual Index/abstracts of SAE Technical Papers**, 2007 *Bibliography on Cold Regions Science and Technology*, 1988 **An Experimental and Theoretical Study of the Ice Accretion Process During Artificial and Natural Icing Conditions** Mark Samuel Kirby, Robert John Hansman, Massachusetts Institute of Technology. Flight Transportation Laboratory, 1986

Real time measurements of ice growth during artificial and natural icing conditions were conducted using an ultrasonic pulse echo technique. This technique allows ice thickness to be measured with an accuracy of 0.5 mm. In addition, the ultrasonic signal characteristics may be used to detect the presence of liquid on the ice surface and hence discern wet and dry ice growth behaviour. Ice growth was measured on the stagnation line of a cylinder exposed to artificial icing conditions in the NASA Lewis Icing Research Tunnel and similarly for a cylinder exposed in flight to natural icing conditions. Ice thickness was observed to increase approximately linearly with exposure time during the initial icing period. The ice accretion rate was

found to vary with cloud temperature during wet ice growth and liquid runback from the stagnation region was inferred A steady state energy balance model for the icing surface was used to compare heat transfer characteristics for icing wind tunnel and natural icing conditions Ultrasonic measurements of wet and dry ice growth observed in the Icing Research Tunnel and in flight were compared with icing regimes predicted by a series of heat transfer coefficients The heat transfer magnitude was generally inferred to be higher for the icing wind tunnel tests than for the natural icing conditions encountered in flight An apparent variation in the heat transfer magnitude was also observed for flights conducted through different natural icing cloud formations An Experimetal and Theoretical Study of the Ice Accretion Process During Artificial and Natural Icing Conditions Mark S. Kirby, Robert John Hansman, 1988 **Results of a Sub-scale Model Rotor Icing Test** Robert J. Flemming, 1991

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