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VORTEX ADVISORY SYSTEM SIMULATION OF CHICAGO O HARE INTERNATIONAL AIRPORT (CLASSIC REPRINT) (PAPERBACK)



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FBC LTD, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Vortex Advisory System Simulation of Chicago O hare International Airport The introduction of wide-bodied jet aircraft, coupled with an increase in airport total operations, has given added significance to the aircraft wake vortex problem. The trailing wake vortices from a large aircraft can pose a serious hazard to smaller aircraft. The smaller aircraft encountering one of these wake vortices may be subjected to extreme rolling movements which can result in a loss of control, a loss of altitude, and possibly structural damage. At present, to reduce the possibility of this occurring, and thus maintain safety standards, separation between selected aircraft pairs has been increased from previous standards. This, of course, has resulted in a reduction of operations below theoretical airport capacity. Until recently, limited knowledge concerning the characteristics and behavior of wake vortices mandated these larger separation standards. Studies and tests sponsored by the Federal Aviation Administration (faa) have shown that vortex characteristics are established initially by the aircraft's gross weight, airspeed, flight configuration, and wingspan. Subsequently, it has been found that vortex characteristics are altered, and eventually dominated, by interactions between the vortices and the ambient atmosphere. This was determined from analysis of over vortex tracks entered into the data base at Transportation Systems Center (tsc), and it has led directly to the development of the vas, a system designed to expedite atc operations while exercising vortex avoidance. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In...

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