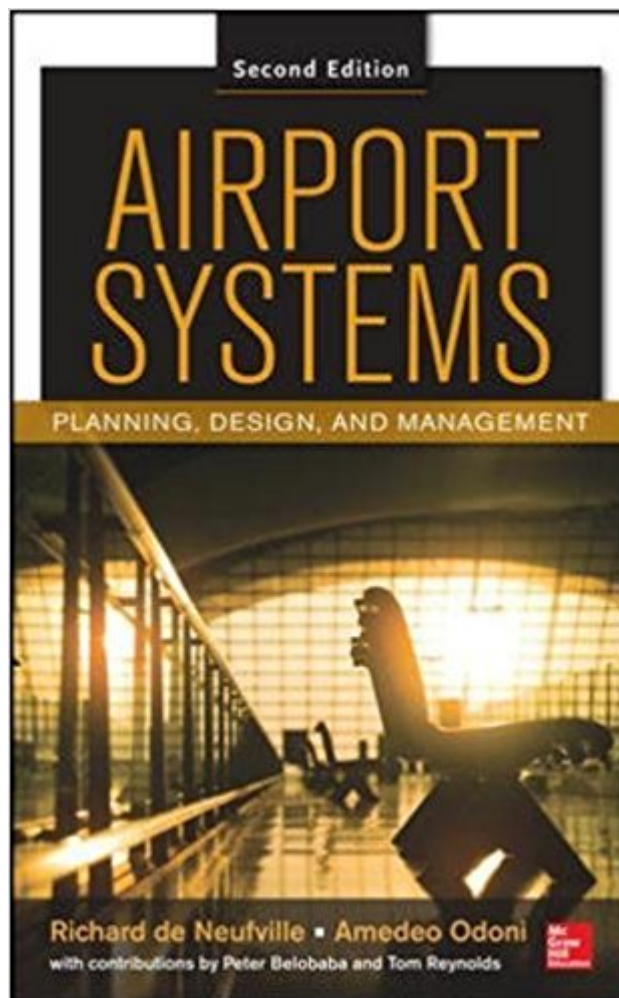




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# **Airport Systems, Second Edition: Planning, Design And Management (Mechanical Engineering)**



## Synopsis

THE MOST PRACTICAL, COMPREHENSIVE GUIDE TO THE PLANNING, DESIGN, AND MANAGEMENT OF AIRPORTS--UPDATED BY LEADING PROFESSIONALS "With the accelerated rate of change occurring throughout the aviation industry, this edition is a timely and very effective resource for ensuring both airport professionals and those interested in airports acquire a comprehensive understanding of the changes taking place, and how they impact airports and the communities they serve. A must read." -- James M. Crites, Executive Vice President of Operations, Dallas/Fort Worth International Airport "Airport Systems has been a must read for my management team and my graduate students because of its outstanding comprehensiveness and clarity. Now further enhanced by an expanded treatment of both environmental and air carrier issues, it promises to retain its place as the foremost text in the airport planning, engineering and management field." -- Dr. Lloyd McCoomb, retired CEO Toronto-Pearson Airport, Chair of Canadian Air Transport Security Authority "The chapter on Dynamic Strategic Planning should be required reading for every airport CEO and CFO. As de Neufville and Odoni emphasise, the aviation world is constantly changing and airport master planning must evolve to be more strategic and adaptable to ever changing conditions." -- Dr. Michael Tretheway, Chief Economist, InterVISTAS Consulting Group Over the past decade, the airport industry has evolved considerably. Airport technology has changed. New research has taken place. The major airlines have consolidated, changing demand for airport services. In order to reflect these and other major shifts in the airport industry, some of the world's leading professionals have updated the premier text on airport design â “ making it, now more than ever, the field's most comprehensive resource of its kind. NEW TO THIS EDITION: Chapter-ending conclusions, with reference material, and exercises Coverage of the latest aircraft technology and air traffic control Advances in the design, planning, and management of airports Additional chapter on Aircraft Impact on Airports Updated environmental regulations and international rules Two contributing authors from Massachusetts Institute of Technology

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## Customer Reviews

Dr. Richard de Neufville is Professor of Engineering Systems and Professor of Civil and Environmental Engineering at MIT. He is known for his development of engineering systems analysis and many texts, most recently, *Flexibility in Engineering Design*. He has consulted and taught on airport planning on all continents except Antarctica for over 40 years. Among his many honors are the Francis X. McKelvey award for Aviation, the FAA award for Excellence in Education (with Amedeo Odoni) and several other teaching awards, the Irwin Sizer award for the Most Significant Contribution to MIT Education, the Chevalier des Palmes Académiques (France), and an honorary doctorate from the Delft University of Technology. Amedeo R. Odoni is Professor of Aeronautics and Astronautics and Professor of Civil and Environmental Engineering at MIT. He specializes in the use of operations research and other quantitative methods in planning, designing, operating, and evaluating airport and air traffic management systems. Over the years he has consulted at Amsterdam, Athens, Boston, Milan, Montreal, Munich, New Delhi, New York, Sydney, Stockholm and many other airports, as well as several Civil Aviation Authorities. He is a member of the National Academy of Engineering, a Fellow of INFORMS, and the recipient of many awards for his research and teaching. He has served, among other positions, as Co-Director of MIT's Operations Research Center and of NEXTOR, the National Center of Excellence in Aviation Operations Research, established by the FAA in 1996. Peter P. Belobaba is Principal Research Scientist at MIT, where he teaches graduate courses on The Airline Industry and Airline Management. He is Program Manager of MIT's Global Airline Industry Program and Director of the PODS Revenue Management Research Consortium. Dr. Belobaba holds an MS in Transportation and a Ph.D. in Flight Transportation Systems from MIT. He is a lead author and editor of the recently released book, *The Global Airline Industry*. Dr. Belobaba has been involved in research related to airline economics, pricing, competition and revenue management since 1985. He has worked as a consultant on the development and implementation of revenue management

systems at over forty airlines and other companies worldwide. He has also published articles in a variety of journals, including Airline Business, Operations Research, Transportation Science, Journal of Revenue and Pricing Management, and Journal of Air Transport Management. Tom G. Reynolds works at MIT Lincoln Laboratory and is a specialist in aviation operations and environmental impact mitigation. He has particular interest in the development of advanced technologies and operations for improving efficiency and mitigating environmental impacts of aviation, and has helped deploy many improvements at major international airports in the UK and USA. He has a Ph.D. in Aerospace Systems from MIT, has worked on the research staff at MIT and the University of Cambridge. He has won several national awards including the AIAA Orville & Wilbur Wright Graduate Award and was a UK Fulbright Scholar.

So fast, way too good quality

An excellent read; information galore!

Good stuff.

this can be a Great book for my graduate studies, it comes in hard cover and good quality... excellent reference.

Very well organized Book

The best one

Very comprehensive and all the useful information you need on airport planning, design and management. A must read for all

AIRPORT SYATEMS, Planning, Design, and Management Richard de Neufville, Amedeo Odoni, with contributions by Peter Belobaba and Tom Reynolds It is the best book avialble on the subject, updating the previous edition with the new developments in the last decade - written in accessible language providing relevant information and guidance to a wide range of stake holders on the planning, design, and operation of large and medium airports, worldwide. In their usual style Professors Richard de Neufville and Amedeo Odoni have focused on the cost, operational

efficiency, and concerns of the airport providers, profitability and flexibility interests of the Airlines, and regulatory and compliance requirements of the governmental officials and managers. The systematic structural layout of the book and case based coverage of the technical material provide to academicians, worldwide, an excellent curriculum for teaching all aspects of Airport Systems; it also provides an in-depth learning program for the students. The simple language provides very useful information to the public officials and community groups. The updated environmental chapter provides a complete guide for preparing environmental documents for the airport development projects, providing relevant technical information on the major areas of concern generally faced in the environmental studies. The inclusion of the Climate Change which has emerged in the forefront in the last decade, is indeed very useful. The comprehensive guide on the procedural requirements of conducting environmental studies is a welcome addition, lacking in the previous edition.

Professors de Neufville, Odoni and their associates are to be congratulated on providing such a valuable guide to a wide range of stakeholders on the planning, design, and management of Airport Systems. Ashraf Jan (Retired, FAA, Civil Aviation Assistant Group Madrid, Airport Advisor to the DGAC Spain, 1989-1999. The comments represent his personal views and do not represent the FAA's views.)

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