

1. Record Nr.	UNINA9910966977603321
Titolo	Airport design and operation / / edited by Antonin Kazda, Robert E. Caves
Pubbl/distr/stampa	Bingley, [England] : , : Emerald Group Publishing Limited, , 2015 ©2015
ISBN	9781523113477 1523113472 9781784418694 1784418692
Edizione	[Third edition.]
Descrizione fisica	1 online resource (596 p.)
Collana	Advances in Mergers and Acquisitions ; ; Volume 14
Disciplina	629.136
Soggetti	Airports - Design and construction Airports - Management Technology & Engineering - Engineering (General) Transport technology & trades
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Front Cover""; ""Airport Design and Operation""; ""Copyright page""; ""Dedication""; ""Contents""; ""Abbreviations""; ""Preface""; ""Acknowledgements""; ""1 Air Transport And Airports""; ""1.1 Development of Airports""; ""1.2 Standards""; ""1.2.1 ICAO Legislation""; ""1.2.2 National Standards and Recommended Practices""; ""1.3 Airport Development Planning""; ""2 Predicting Traffic""; ""2.1 Introduction""; ""2.2 Types of Forecast Needed""; ""2.3 Methods of Analysis""; ""2.3.1 Informed Judgement""; ""2.3.2 Trend Extrapolation""; ""2.3.3 Econometric Models""; ""2.3.4 The Travel Decisions"" ""2.3.5 Modal Shares""""2.3.6 Discrete Choice Models""; ""2.3.7 Revealed and Stated Preferences""; ""2.3.8 Effects of Supply Decisions""; ""2.3.9 Uncertainty""; ""2.3.10 Scenario Writing""; ""2.4 Historic Trends in Traffic""; ""2.5 Factors Affecting the Trends""; ""2.5.1 Economic Factors""; ""2.5.2 Demographic Factors""; ""2.5.3 Supply Factors""; ""2.5.3.1 Cost per passenger kilometre (pkm)""; ""2.5.3.2 Aircraft size""; ""2.5.3.3 Cost of input factors""; ""2.5.3.4 Technology""; ""2.5.3.5

Management"; "2.5.3.6 Capacity constraints"; "2.5.3.7 Fares"; "2.5.4 Economic Regulation"; "2.5.5 Environmental Regulation"; "2.5.6 Cargo"; "2.6 Conclusions"; "3 Airport Site Selection and Runway System Orientation"; "3.1 Selection of a Site for the Airport"; "3.2 Usability Factor"; "3.3 Effect of Low-Visibility Operations"; "3.4 Control of Obstacles"; "3.5 Other Factors"; "4 Runways"; "4.1 Aerodrome Reference Code"; "4.2 Runway Length"; "4.3 Declared Distances"; "4.4 Runway Width"; "4.4.1 Runway Width Requirements"; "4.4.2 Runway Shoulders"; "4.4.3 Runway Turn Pads"; "4.5 Runway Slopes"; "4.5.1 Transverse Slopes"; "4.5.2 Longitudinal Slopes"; "5 Runway Strips and Other Areas"; "5.1 Runway Strips"; "5.2 Clearways"; "5.3 Runway End Safety Areas"; "6 Taxiways"; "6.1 Functional Criteria and Taxiway System Design"; "6.2 Rapid Exit Taxiways"; "6.3 Taxiway Separations"; "6.4 Taxiway Geometry"; "7 Aprons"; "7.1 Apron Requirements"; "7.2 Apron Sizing"; "7.3 Apron Location"; "7.4 Apron Concepts"; "7.4.1 Simple Concept"; "7.4.2 Linear Concept"; "7.4.3 Open Concept"; "7.4.4 Pier Concept"; "7.4.5 Satellite Concept"; "7.4.6 Hybrid Concept"; "7.5 Stand Types"; "7.6 Apron Capacity"; "7.7 Isolated Aircraft Parking Position"; "8 Pavements"; "8.1 Background"; "8.2 Pavement Types"; "8.2.1 Unpaved Movement Areas"; "8.2.2 Pavements"; "8.2.2.1 Use of hard surface pavements"; "8.2.2.1.1 Subgrade"; "8.2.2.1.2 Sub-base"; "8.2.2.1.3 Bearing course/base course"; "8.2.2.2 Flexible (asphalt) pavements"; "8.2.2.3 Rigid (concrete) pavements"; "8.2.2.4 Combined pavements"; "8.2.2.5 Block paving"; "8.3 Pavement Strength"; "8.3.1 Pavements-Aircraft Loads"; "8.3.2 Pavement Strength Reporting"; "8.3.3 Overload Operations"; "8.4 Runway Surface"; "8.4.1 Runway Surface Quality Requirements"

Sommario/riassunto

Airport design and operation are always closely related. A poor design affects the airport operations, resulting in increased costs, and a sound understanding of operation is needed to enable good design. The aim of this third edition is to present an updated and integrated approach to the two. The chapters have been enhanced to reflect changes in technology and the way the air transport industry functions. Key topics that are newly addressed in this book include low cost airline operations, security issues and EASA regulations on airports. A new chapter covering extended details about wildlif
