Approaches To Airport Architecture

The Modern Airport Terminal New Approaches To Airport Architecture
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Beijing International Airport

All technologies differ from one another. They are as varied as humanity's interaction with the physical world. Even people attempting to do the same thing produce multiple technologies. For example, John H. White discovered more than 1,000 patents in the 19th century for locomotive smokestacks. Yet all technologies are processes by which humans seek to control their physical environment and bend nature to their purposes. All technologies are alike. The tension between likeness and difference runs through this collection of papers. All focus on atmospheric flight, a twentieth-century phenomenon. But they approach the topic from different disciplinary perspectives. They ask disparate questions. And they work from distinct agendas. Collectively they help to explain what is different about aviation - how it differs from other technologies and how flight itself has varied from one time and place to another. The importance of this topic is manifest. Flight is one of the defining technologies of the twentieth century. Jay David Bolter argues in Turing's Man that certain technologies in certain ages have had the power not only to transform society but also to shape the way in which people understand their relationship with the physical world. "A defining technology," says Bolter, "resembles a magnifying glass, which collects and focuses seemingly disparate ideas in a culture into one bright, sometimes piercing ray." Flight has done that for the twentieth century.

The Geography of Transport Systems

Readers lift flaps to explore the life of people in Playtown.

The Modern Airport Terminal

First published in 1979, Airport Engineering by Ashford and Wright, has become a classic textbook in the education of airport engineers and transportation planners. Over the past twenty years, construction of new airports in the US has waned as construction abroad boomed. This new edition of Airport Engineering will respond to this shift in the growth of airports globally, with a focus on the role of the International Civil Aviation Organization (ICAO), while still providing the best practices and tested fundamentals that have made the book successful for over 30 years.

Airport Builders

Thirty years ago, few residents of Asian cities had ever been on a plane, much less outside their home countries. Today, flying, and flying abroad, is commonplace. How has this leap in cross-border mobility affected the design and use of such cities? And how is it accelerating broader socioeconomic and political changes in Asian societies? In Airport Urbanism, Max Hirsh undertakes an unprecedented study of airport infrastructure in five Asian cities—Bangkok, Hong Kong, Shenzhen, Kuala Lumpur, and Singapore. Through this lens he examines the exponential increase in international air traffic and its implications for the planning and design of the contemporary city. By investigating the low-cost, informal, and transborder transport systems used by new members of the flying public—such as migrant workers, retirees, and Asia's emerging middle class—he uncovers an architecture of incipient global mobility that has been inconspicuously inserted into places not typically associated with the infrastructure of international air travel. Drawing on material gathered in restricted zones of airports and border control facilities, Hirsh provides a fascinating, up-close view of the mechanics of cross-border mobility. Moreover, his personal experience of growing up and living on three continents inflects his analyses with unique insight into the practicalities of international migration and into the mindset of people on the move.

John F. Kennedy International Airport

This comprehensive guide to the planning and design of airport terminals and their facilities covers all types of airport terminal found around the world and highlights the environmental and technical issues that the designer has to address. Contemporary examples are critically reviewed through a series of case studies. This new edition covers the most recent examples of high quality, technically advanced designs from the Far East, Europe and North America. This book will be a source of inspiration and guiding principles for those who design, commission or manage airport buildings.

The Modern Station

Airport building is a new growth area for the construction industry and this book provides a comprehensive, highly illustrated guide for anyone involved in the construction process.

Airport Passenger Terminal Planning and Design: Guidebook

Mobility is fundamental to economic and social activities such as commuting, manufacturing, or supplying energy. Each movement has an origin, a potential set of intermediate locations, a destination, and a nature which is linked with geographical attributes. Transport systems composed of infrastructures, modes and terminals are so embedded in the socio-economic life of
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individuals, institutions and corporations that they are often invisible to the consumer. This is paradoxical as the perceived invisibility of transportation is derived from its efficiency. Understanding how mobility is linked with geography is main the purpose of this book. The third edition of The Geography of Transport Systems has been revised and updated to provide an overview of the spatial aspects of transportation. This text provides greater discussion of security, energy, green logistics, as well as new and updated case studies, a revised content structure, and new figures. Each chapter covers a specific conceptual dimension including networks, modes, terminals, freight transportation, urban transportation and environmental impacts. A final chapter contains core methodologies linked with transport geography such as accessibility, spatial interactions, graph theory and Geographic Information Systems for transportation (GIS-T). This book provides a comprehensive and accessible introduction to the field, with a broad overview of its concepts, methods, and areas of application. The accompanying website for this text contains a useful additional material, including digital maps, PowerPoint slides, databases, and links to further reading and websites. The website can be accessed at: http://people.hofstra.edu/geotrans This text is an essential resource for undergraduates studying transport geography, as well as those interest in economic and urban geography, transport planning and engineering.

Atmospheric Flight in the Twentieth Century

Three quarters of a million people are in a plane somewhere right now. Many millions travel by air each day. For most of us, the experience of being in an airport is to be endured rather than appreciated, with little thought for the quality of the architecture. No matter how hard even the world’s best architects have tried, it is difficult to make a beautiful airport. And yet such places do exist. Cathedrals of the jet age that offer something of the transcendence of flight even in an era of mass travel and budget fares. Here are twenty-one of the most beautiful airports in the world.

The Modern Airport Terminal

* The new standard on airport systems planning, design, and management * Provides solutions to the most pressing airport concerns: expansion, traffic, environment, additions, etc. * Full coverage of computer-based tools and methodology * Additional reports and updates available via authors’ website

The Airport Book

The definitive guide to airport planning and management—fully updated with the latest advances in the industry. This thoroughly revised guide covers all aspects of airport infrastructure—from the airfield and runway to airspace, air traffic control, and terminal and security systems. Airport Planning & Management, Seventh Edition clearly explains the FAA’s National Plan of Integrated Airport Systems (NPIAS), historical and current legislation and regulations, FAR Part 139, and more. You’ll explore cutting-edge concepts such as automation, smart baggage handling, enhanced security, and analytics. Updated questions for review and discussion will bring new insights to your knowledge of how airports are planned and managed. Coverage includes:• An introduction to airports and airport systems • Airport and airport systems organization and administration • Historical and legislative perspectives • The airfield • Airspace and air traffic management • Airport operations management under FAR Part 139 • Airport terminals and ground access • Airport security • Airport financial management • Economic, political, and social role of airports • Airport planning • Airport capacity and delay • The future of airport management

Designing TWA

A team of surgeons perform an operation on a violent paranoid man in an attempt to electronically control his behavior, only to have an unforeseen development from the procedure endanger the city.

The Metropolitan Airport

Washington Dulles International Airport is one of the three major airports that transports passengers into and out of the Washington, D.C., metropolitan area. The beauty of the site is admired not only by millions who arrive and leave the area, but by local residents as well. After an extensive study of three separate locations in Virginia, Pres. Dwight D. Eisenhower agreed to the Chantilly site and later chose to rename the world’s first jet airport after his former secretary of state, John Foster Dulles. Renowned architect Eero Saarinen designed the magnificent building that serves as a gateway in and out of the United States. Today, the once peaceful farming area and small villages have turned into a fast-paced business world filled with thousands of new homes and residents.

The Modern Airport Terminal

A generously illustrated volume on the design and construction of the International Terminal of Beijing Airport by the acclaimed architectural firm Foster + Partners. Imagine an airport that welcomes you as visitor or neighbor; that takes you efficiently from terminal to plane; that is sustainably designed and filled with light and air; that you'll be happy to linger, shop, and eat in. Not only does this airport exist it was built by Foster + Partners. In copious photographs and architectural plans along with informative text, this book celebrates the architecture and technology of the Beijing Airport’s International Terminal. Readers will learn how the building is designed to cope with the unpredictable nature of the aviation industry and how it incorporates a range of environmental strategies that make it energy efficient and economical to operate. In text and illustrations, this book shows what makes the International Terminal of the Beijing Airport a standard for all others to follow.

Airports

Written by experts, Sustainable Housing brings new perspectives on residential sustainability, using case studies of latest practice. This book is based upon the ‘Housing and Sustainability’ conference at the RIBA in 1998, which intended to guide action into the next century, setting down key principles, providing important new technical information and setting UK practices in a European context.

Airport Engineering

This book investigates how international air terminals organize passenger movement and generate spending. It offers a new understanding of how their architecture and artworks operate visually to guide people through the space and affect their behaviour. Menno Hubregtse’s research draws upon numerous airport visits and interviews with architects and planners, as well
Approaches To Airport Architecture

as documents and articles that address these terminals’ development, construction, and renovations. The book establishes the
main concerns of architects with respect to wayfinding strategies and analyzes how air terminal architecture, artworks, and
interior design contribute to the airport’s operations. The book will be of interest to art historians, architectural historians,
practising architects, urban planners, airport specialists, and geographers.

Airport Planning & Management, Seventh Edition
This comprehensive guide to the planning and design of airport terminals and their facilities covers all types of airport terminal
found around the world and highlights the environmental and technical issues that the designer has to address. Contemporary
examples are critically reviewed through a series of case studies. This new edition covers the most recent examples of high
quality, technically advanced designs from the Far East, Europe and North America. This book will be a source of inspiration and
guiding principles for those who design, commission or manage airport buildings.

The Terminal Man
TRB’s Airport Cooperative Research Program (ACRP) Report 25, Airport Passenger Terminal Planning and Design comprises a
guidebook, spreadsheet models, and a user’s guide in two volumes and a CD-ROM intended to provide guidance in planning and
developing airport passenger terminals and to assist users in analyzing common issues related to airport terminal planning and
design. Volume 1 of ACRP Report 25 explores the passenger terminal planning process and provides, in a single reference
document, the important criteria and requirements needed to help address emerging trends and develop potential solutions for
airport passenger terminals. Volume 1 addresses the airside, terminal building, and landside components of the terminal complex.
Volume 2 of ACRP Report 25 consists of a CD-ROM containing 11 spreadsheet models, which include practical learning exercises and
several airport-specific sample data sets to assist users in determining appropriate model inputs for their situations, and a
user’s guide to assist the user in the correct use of each model. The models on the CD-ROM include such aspects of terminal
planning as design hour determination, gate demand, check-in and passenger and baggage screening, which require complex
analyses to support planning decisions. The CD-ROM is also available for download from TRB’s website as an ISO image.

The Art of the Airport
Since their emergence at the start of the 20th century, airports have become one of the most distinctive and important of
architectural building types. Often used to symbolize progress, freedom and trade, they offer architects the chance to design on a
grand scale. At the beginning of the 21st century, airports are experiencing a new and exciting renaissance as they adapt and
evolve into a new type of building; one that is complete, adaptable and catering to a new range of demands. As passengers are
held in airports far longer than they used to be, they have also now become destinations in their own right. Airports celebrates the
most important airport designs in the world. Beginning with an exploration of the first structures of aviation, and early designs such as the Berlin Tempelhof, the book explores the key airports of the century up to the present day, including Eero Saarinen's
TWA Terminal in New York, Renzo Piano's Kansai Airport and Norman Foster's Chek Lap Kok in Hong Kong.

Terminal Town
Historical accounts of racial discrimination in transportation have focused until now on trains, buses, and streetcars and their
respective depots, terminals, stops, and other public accommodations. It is essential to add airplanes and airports to this
narrative, says Anke Ortlepp. Air travel stands at the center of the twentieth century’s transportation revolution, and airports
embodied the rapidly mobilizing, increasingly prosperous, and cosmopolitan character of the postwar United States. When
sociologists inscribed local definitions of whiteness and blackness onto sites of interstate and even international transit, they
not only brought the incongruities of racial separation into sharp relief but also obligated the federal government to intervene.
Ortlepp looks at African American passengers; civil rights organizations; the federal government and judiciary; and airport
planners, architects, and managers as actors in shaping aviation’s legal, cultural, and built environments. She relates the
struggles of black travelers—to enjoy the same freedoms on the airport grounds that they enjoyed in the aircraft cabin—in the
context of larger shifts in the postwar social, economic, and political order. Jim Crow terminals, Ortlepp shows us, were both
spatial expressions of sweeping change and sites of confrontation over the renegotiation of racial identities. Hence, this new study
situates itself in the scholarly debate over the multifaceted entanglements of “race” and “space.”

Airline Passenger Security Screening
This book addresses new technologies being considered by the Federal Aviation Administration (FAA) for screening airport
passengers for concealed weapons and explosives. The FAA is supporting the development of promising new technologies that
can reveal the presence not only of metal-based weapons as with current screening technologies, but also detect plastic explosives and other non-metallic threat materials and objects, and is concerned that these new technologies may not be
acceptable for use in airports for other than technical reasons. This book presents discussion of the health, legal, and public
acceptance issues that are likely to be raised regarding implementation of improvements in the current electromagnetic
screening technologies, implementation of screening systems that detect traces of explosive materials on passengers, and
implementation of systems that generate images of passengers beneath their clothes for analysis by human screeners.

Washington Dulles International Airport

Airport Systems: Planning, Design, and Management
If air travel was once the bold future, it has now settled into a mundane, on-going present. We no longer expect romantic
experiences or sublime views, but just hope that we get from here to there with minimal hassle. In The End of Airports,
Christopher Schaberg suggests that even as the epoch of flight approaches a threshold of banality, there are still mysteries to be
unraveled around our aircraft and airfields. Drawing from his own experiences working at an airport, as well as interpreting these
spaces from the perspective of a cultural critic, Schaberg explores the secret lives of jet bridges, seating areas, concourses, and
tarmac vehicles, showing how the ordinary objects of flight call for wonder and inquiry. The End of Airports is not an obituary—it's
more like an ode to terminals in the digital age.

The End of Airports
The full cultural history of the ultimate modern structure: the airport, revealed as never before. Since its origins in the muddy fields of flying machines, the airport has arguably become one of the defining institutions of modern life. In Naked Airport, critic Alastair Gordon ranges from global geopolitics to action movies to the daily commute, showing how airports have changed our sense of time, distance, travel, style, and even the way cities are built and business is done. Gordon introduces the people who shaped this place of sudden transportation: pilots like Charles Lindberg, architects like Eero Saarinen, politicians like Fiorello La Guardia, and Hitler, who built Berlin's Tempelhof as a showcase for Fascist power. He describes the airport's futuristic contributions, such as credit cards, in the form of fly-now-pay-later schemes, and he charts its shift in popular perception, from glamorous to infuriating. Finally, he analyzes the airport’s function in war and peace—its gatekeeper role controlling immigration, its appeal to revolutionaries since the hijackings of the 1960s, and its new frontline position in the struggle against terror. Compelling and accessible, Naked Airport is an original history of a long-neglected yet central creation of modern reality and imagination.

**The Modern Terminal**

**Planning and Design of Airports, Fifth Edition**

"An exploratory journey through the airport."

**Sustainable Housing**

The imaginary world is just as Josiah Jones left it, but it's all about to change. Events surrounding the death of an agent have compelled Josiah and Tom to find the RED Agency's new headquarters, but things are more than they seem. A mysterious third party interferes, and no one knows whose side they could be on. The second installment of the Adventures of Josiah Jones is more exciting, more action-packed, and even more intriguing than the first.

**The Airport Book**

Authoritative, Up-to-Date Coverage of Airport Planning and Design Fully updated to reflect the significant changes that have occurred in the aviation industry, the new edition of this classic text offers definitive guidance on every aspect of planning, design, engineering, and renovating airports and terminals. Planning and Design of Airports, Fifth Edition, includes complete coverage of the latest aircraft and air traffic management technologies, passenger processing technologies, computer-based analytical and design models, new guidelines for estimating required runway lengths and pavement thicknesses, current Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) standards, and more. Widely recognized as the field's standard text, this time-tested, expertly written reference is the best and most trusted source of information on current practice, techniques, and innovations in airport planning and design. COVERAGE INCLUDES: Designing facilities to accommodate a wide variety of aircraft Air traffic management Airport planning studies Forecasting for future demands on airport system components Geometric design of the airfield Structural design of airport pavements Airport lighting, marking, and signage Planning and design of the terminal area Airport security planning Airport airside capacity and delay Finance strategies, including grants, bonds, and private investment Environmental planning Heliports

**Newark Airport**

With The Modern Terminal, Brian Edwards presents a comprehensive guide to the planning and design of airport terminals and their facilities. The book covers all types of airport terminal found around the world, and highlights environmental issues.

**Playtown**

The Architects' Handbook provides a comprehensive range of visual and technical information covering the great majority of building types likely to be encountered by architects, designers, building surveyors and others involved in the construction industry. It is organised by building type and concentrates very much on practical examples. Including over 300 case studies, the Handbook is organised by building type and concentrates very much on practical examples. It includes: - a brief introduction to the key design considerations for each building type - numerous plans, sections and elevations for the building examples - references to key technical standards and design guidance - a comprehensive bibliography for most building types The book also includes sections on designing for accessibility, drawing practice, and metric and imperial conversion tables. To browse sample pages please see http://www.blackwellpublishing.com/architectsdata

**Airport Urbanism**

A monograph on SF-based architects Kuth/Ranieri. The book is organized into three distinct sections. Ila Berman introduces the monograph with her essay, 'Paradoxical Matters', and provides additional text insertions that appear on selected projects throughout the volume.

**Wayfinding, Consumption, and Air Terminal Design**

Nicholas Dagen Bloom chronicles the untold story of JFK International's complicated and turbulent relationship with the New York City metropolitan region. In spite of its reputation for snarled traffic, epic delays, endless construction and abrasive employees, he reveals how the airport was a key player in shifting patterns of labour, transportation and residence - both encouraging and benefiting from the dispersion of population and economic activity to the outer boroughs and suburbs.

**Kuth/Ranieri Architects**

Newark Airport was the first major airport in the New York metropolitan area. It opened on October 1, 1928, occupying an area of filled-in marshland. In 1935, Amelia Earhart dedicated the Newark Airport Administration Building, which was North America's first commercial airline terminal. Newark was the busiest airport in the world until LaGuardia Airport, in New York, opened in 1939. During World War II, Newark was closed to passenger traffic and controlled by the United States Army Air Force for logistics operations. The Port Authority of New York took over the airport in 1948 and made major investments in airport infrastructure. It
expanded, opened new runways and hangars, and improved the airport's terminal layout. The art deco administration building served as the main terminal until the opening of the North Terminal in 1953. The administration building was added to the National Register of Historic Places in 1979.

**Naked Airport**

The bestselling author of *The Architecture of Happiness* and *The Art of Travel* spends a week at an airport in a wittily intriguing meditation on the "non-place" that he believes is the centre of our civilization. In the summer of 2009, Alain de Botton was invited by the owners of Heathrow airport to become their first ever writer-in-residence. Given unprecedented, unrestricted access to wander around one of the world's busiest airports, he met travellers from all over the globe, and spoke with everyone from baggage handlers to pilots, and senior executives to the airport chaplain. Based on these conversations he has produced this extraordinary meditation on the nature of travel, work, relationships, and our daily lives. Working with the renowned documentary photographer Richard Baker, he explores the magical and the mundane, and the interactions of travellers and workers all over this familiar but mysterious "non-place," which by definition we are eager to leave. Taking the reader through departures, "air-side," and the arrivals hall, de Botton shows with his usual combination of wit and wisdom that spending time in an airport can be more revealing than we might think. From the Trade Paperback edition.

**Terminal Velocity**

Take an historical tour of Chicago's railroad stations, airports, bus depots and steamship wharves. Showcasing great icons of transportation, Schwieterman illustrates why the "Windy City" so richly deserves its reputation as America's premier travel hub.

**The Chaos of Standing Still**

Constructed closer to Manhattan than the commercially unsuccessful Floyd Bennett Field, LaGuardia Airport was conceived in the mid-1930s as New York City mayor Fiorello LaGuardia realized the need for a great airport for one of the world's great cities. Originally known as New York Municipal Airport, the popular airport soon had its name changed to recognize LaGuardia's enormous contribution to the project. At the time of its opening in 1939, it was the largest and most advanced commercial airport in the world with terminals considered art deco masterpieces. Although a very large airport for the era in which it was built, by the late 1940s it was the world's busiest airport and clearly too small for the increasing amount of air traffic. Through the years its runways were lengthened and facilities were improved to handle larger and faster aircraft. Still one of America's busiest airports, LaGuardia has witnessed the steady progress of American commercial aviation, from flying boats to jetliners.

**The Architects' Handbook**

An exciting new generation of railway architecture has emerged in Europe and elsewhere over the past decade. This book explains the reasons for the renaissance of the station as a building type and the current changes it is undergoing. The functional, social and technical factors which shape railway architecture are examined. As stations are essential elements of sustainable development, the environmental benefits of railways are also discussed. Essential guidance is provided for those who design, commission or manage railway stations. By drawing on technical design manuals and examples of recent stations (many designed by leading architects) the book gives help and instruction to all those with an interest in the future of railway architecture.

**Airport Architecture**

John F. Kennedy International Airport opened in 1948, after the realization set in that the newly built LaGuardia Airport was unable to handle the volume of air traffic for New York City. Pushed through by New York's Mayor Fiorello LaGuardia, the airport was to be located 14 miles from Manhattan, in Jamaica Bay, Queens, on the site of the old Idlewild Golf Course. For its first years, Idlewild Airport, as it was originally known, consisted of a low-budget temporary terminal and a series of Quonset huts. A major new building program began in the mid-1950s, and the airport rapidly changed from a ramshackle series of buildings into a glamorous-looking city. Renamed John F. Kennedy International Airport in 1963, it has now grown to cover 5,000 acres.

**LaGuardia Airport**

Airports today are much more than gateways to cities, countries or continents. They have developed into multifunctional complexes, serving of course air travel but becoming almost a city in its own right, hosting all kinds of facilities and services, increasingly well 24/7 access. Like to the way stations in the past, these "aeropolises" today are places of fast economic growth, offering the perfect setting for global business. Consequently, airports have become one of the most prominent architectural tasks of the present. Drawing on 71 examples, this volume shows the exciting multiplicity of contemporary airport architecture and design. The projects presented include the newest large-scale airports, smaller airports at more remote locations as well as new terminal buildings and individual new functional areas such as air traffic control centers, hangars and lounges.

**Jim Crow Terminals**

Ryn, eighteen, trapped by a massive blizzard in the Denver airport, meets some unique characters who help her cope with survivor's guilt on the first anniversary of her best friend's death.

**A Week at the Airport**

This comprehensive guide to the planning and design of airport terminals and their facilities covers all types of airport terminal found around the world and highlights the environmental and technical issues that the designer has to address. Contemporary examples are critically reviewed through a series of case studies. This new edition covers the most recent examples of high quality, technically advanced designs from the Far East, Europe and North America. This book will be a source of inspiration and guiding principles for those who design, commission or manage airport buildings.