

# Discrete Choice Modelling and Air Travel Demand

Theory and Applications



LAURIE A. GARROW

# Discrete Choice Modelling And Air Travel Demand

**Peter Nijkamp**



## **Discrete Choice Modelling And Air Travel Demand:**

**Discrete Choice Modelling and Air Travel Demand** Professor Laurie A Garrow, 2012-10-01 In recent years airline practitioners and academics have started to explore new ways to model airline passenger demand using discrete choice methods This book provides an introduction to discrete choice models and uses extensive examples to illustrate how these models have been used in the airline industry These examples span network planning revenue management and pricing applications Numerous examples of fundamental logit modeling concepts are covered in the text including probability calculations value of time calculations elasticity calculations nested and non nested likelihood ratio tests etc The core chapters of the book are written at a level appropriate for airline practitioners and graduate students with operations research or travel demand modeling backgrounds Given the majority of discrete choice modeling advancements in transportation evolved from urban travel demand studies the introduction first orients readers from different backgrounds by highlighting major distinctions between aviation and urban travel demand studies This is followed by an in depth treatment of two of the most common discrete choice models namely the multinomial and nested logit models More advanced discrete choice models are covered including mixed logit models and generalized extreme value models that belong to the generalized nested logit class and or the network generalized extreme value class An emphasis is placed on highlighting open research questions associated with these models that will be of particular interest to operations research students Practical modeling issues related to data and estimation software are also addressed and an extensive modeling exercise focused on the interpretation and application of statistical tests used to guide the selection of a preferred model specification is included the modeling exercise uses itinerary choice data from a major airline The text concludes with a discussion of on going customer modeling research in aviation Discrete Choice Modelling and Air Travel Demand is enriched by a comprehensive set of technical appendices that will be of particular interest to advanced students of discrete choice modeling theory The appendices also include detailed proofs of the multinomial and nested logit models and derivations of measures used to represent competition among alternatives namely correlation direct elasticities and cross elasticities

Discrete Choice Modelling and Air Travel Demand Laurie A. Garrow, 2010 The core chapters of the book are written at a level appropriate for airline practitioners and graduate students with operations research or travel demand modeling backgrounds Given the majority of discrete choice modeling advancements in transportation evolved from urban travel demand studies the introduction first orients readers from different backgrounds by highlighting major distinctions between aviation and urban travel demand studies This is followed by an in depth treatment of two of the most common discrete choice models namely the multinomial and nested logit models More advanced discrete choice models are covered including mixed logit models and generalized extreme value models that belong to the generalized nested logit class and or the network generalized extreme value class An emphasis is placed on highlighting open research questions associated with these models that will be of

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*Modelling and Air Travel Demand* Laurie A. Garrow,2010 **Discrete Choice Modelling and Air Travel Demand** Laurie A. Garrow,2016-05-23 In recent years airline practitioners and academics have started to explore new ways to model airline passenger demand using discrete choice methods This book provides an introduction to discrete choice models and uses extensive examples to illustrate how these models have been used in the airline industry These examples span network planning revenue management and pricing applications Numerous examples of fundamental logit modeling concepts are covered in the text including probability calculations value of time calculations elasticity calculations nested and non nested likelihood ratio tests etc The core chapters of the book are written at a level appropriate for airline practitioners and graduate students with operations research or travel demand modeling backgrounds Given the majority of discrete choice modeling advancements in transportation evolved from urban travel demand studies the introduction first orients readers from different backgrounds by highlighting major distinctions between aviation and urban travel demand studies This is followed by an in depth treatment of two of the most common discrete choice models namely the multinomial and nested logit models More advanced discrete choice models are covered including mixed logit models and generalized extreme value models that belong to the generalized nested logit class and or the network generalized extreme value class An emphasis is placed on highlighting open research questions associated with these models that will be of particular interest to operations research students Practical modeling issues related to data and estimation software are also addressed and an extensive modeling exercise focused on the interpretation and application of statistical tests used to guide the selection of a preferred model specification is included the modeling exercise uses itinerary choice data from a major airline The text concludes with a discussion of on going customer modeling research in aviation *Discrete Choice Modelling and Air Travel Demand* is enriched by a comprehensive set of technical appendices that will be of particular interest to advanced students of discrete choice modeling theory The appendices also include detailed proofs of the multinomial and nested logit models and derivations of measures used to represent competition among alternatives namely correlation direct elasticities and cross elasticities **Quantitative Problem Solving Methods in the Airline Industry** Cynthia Barnhart,Barry Smith,2011-12-21 This book reviews operations research theory applications and practice in airline planning and operations It examines the business and technical landscape details best practices and identifies open questions and areas for future research

**Discrete Choice Analysis** Moshe Ben-Akiva,Steven R. Lerman,2018-04-20 *Discrete Choice Analysis* presents these results in such a way that they are fully accessible to the range of students and professionals who are involved in modelling

demand and consumer behavior in general or specifically in transportation whether from the point of view of the design of transit systems urban and transport economics public policy operations research or systems management and planning The methods of discrete choice analysis and their applications in the modelling of transportation systems constitute a comparatively new field that has largely evolved over the past 15 years Since its inception however the field has developed rapidly and this is the first text and reference work to cover the material systematically bringing together the scattered and often inaccessible results for graduate students and professionals Discrete Choice Analysis presents these results in such a way that they are fully accessible to the range of students and professionals who are involved in modelling demand and consumer behavior in general or specifically in transportation whether from the point of view of the design of transit systems urban and transport economics public policy operations research or systems management and planning The introductory chapter presents the background of discrete choice analysis and context of transportation demand forecasting Subsequent chapters cover among other topics the theories of individual choice behavior binary and multinomial choice models aggregate forecasting techniques estimation methods tests used in the process of model development sampling theory the nested logit model and systems of models Discrete Choice Analysis is ninth in the MIT Press Series in Transportation Studies edited by Marvin Manheim     Airport Ground Access Mode Choice Models Geoffrey David Gosling, Airport Cooperative Research Program, 2008 This synthesis extends previous efforts to document the state of practice for airport ground access mode choice models It examines the characteristics of existing models and discusses the issues involved in the development and use of such models to improve the understanding and acceptance of their role in airport planning and management Information presented in this report may be of interest to a range of airport managers airport and regional transportation planners consultants and transportation modeling specialists and researchers interested in issues involving airport ground access mode choice For this synthesis a comprehensive review of the relevant literature was undertaken To document the extent of the recent use of airport ground access mode choice models and to identify sources of technical documentation on existing models this literature review was supplemented by a survey of airport authorities metropolitan planning organizations consulting firms and research organizations and other government agencies and industry organizations Follow up communications by telephone and e mail were made where necessary     Journal of Transport Economics and Policy ,2004     Regional Airports M. N. Postorino, 2011 Regional Airports have become increasingly important elements of the air network system both as feeders of hub and spoke services and as origins or destination of point to point services Congestion at the main hubs and increasing demand for air transportation both for passengers and freight services necessitates revaluation of the overall air systems with regional airports taking an ever expanding role Optimisation of air transportation systems within the framework of other forms of transport plays an important part in the present quest for sustainability Congestion nowadays is not only associated with countries such as the USA and those in the EU but also a variety of other

countries with fast developing economies where there is a strong increase in air transportation demand The revolution of the existing airport system including regional airports requires the developing of new optimisation tools which can simulate the whole process and produce optimal solutions These models are also essential to predict future demands and in particular the role that regional airports will play The siting of new airports involves taking into consideration a variety of environmental ecological social and economic factors which transcend the problem of transportation resources optimisation itself Regional Airports can be a powerful driving force behind the development of an area and conversely can result in major problems if they are wrongly sited

**Transport Systems and Policy** Peter Nijkamp, 2004 Transport and mobility are critical for the economic development of cities and regions and are a key factor in achieving sustained economic growth This collection brings together Peter Nijkamp's influential work in the areas of transport systems and transport policy The first part offers new theoretical insights and a review of the state of the art in transportation science The essays address issues such as the costs and benefits of transport the role of price in transport demand the impact of information and the potential of congestion pricing The second part focuses attention on the modelling of transport systems The third part comprises papers on transport infrastructure and includes studies on the impact of infrastructure and superstructure on economic growth the costs of infrastructure construction the evaluation of airport expansion and airport efficiency The final part considers issues of public policy including governance principles for sustainable urban transport welfare implications of information policy the economic consequences of airline deregulation the use of policy scenarios for the far future and the transferability of transport policy to other areas This collection will be essential reading for scholars and students interested in all aspects of transport research and policy

**INFORMS Annual Meeting** Institute for Operations Research and the Management Sciences. National Meeting, 2008

*Transportation Systems Planning and Management* National Research Council (U.S.). Transportation Research Board, 1988

*Aviation Papers*, 1988

**The Conference Proceedings of the 1998 Air Transport Research Group (ATRG) of the WCTR Society** WCTR Society. Air Transport Research Group. Conference, 1998

**Synthesis of Highway Practice** National Cooperative Highway Research Program, 1998

*Proceedings ... Annual Meeting* Transportation Research Forum,

**Proceedings of the Transportation Research Forum** Transportation Research Forum, 1993

**Canadian Journal of Civil Engineering**, 1995

**Passenger Demand for Air Transportation in a Hub-and-spoke Network** Chieh-Yu Hsiao, 2008

**Principles of Transportation Economics** Kenneth Duncan Boyer, 1998 Principles of Transportation Economics is an introduction into the distinctive elements of transportation economics describing how the standard pieces of economic analysis are applied in the transport sector Boyer's text reflects transportation economics as it is taught and practiced today Unlike its many predecessors its arguments do not discuss the practice of economic regulation Legal issues and concerns of regulatory process are no longer a central part of transportation economics and this book reflects this shift The analysis covers the modern developments of

subsidy free pricing and stand alone costing

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