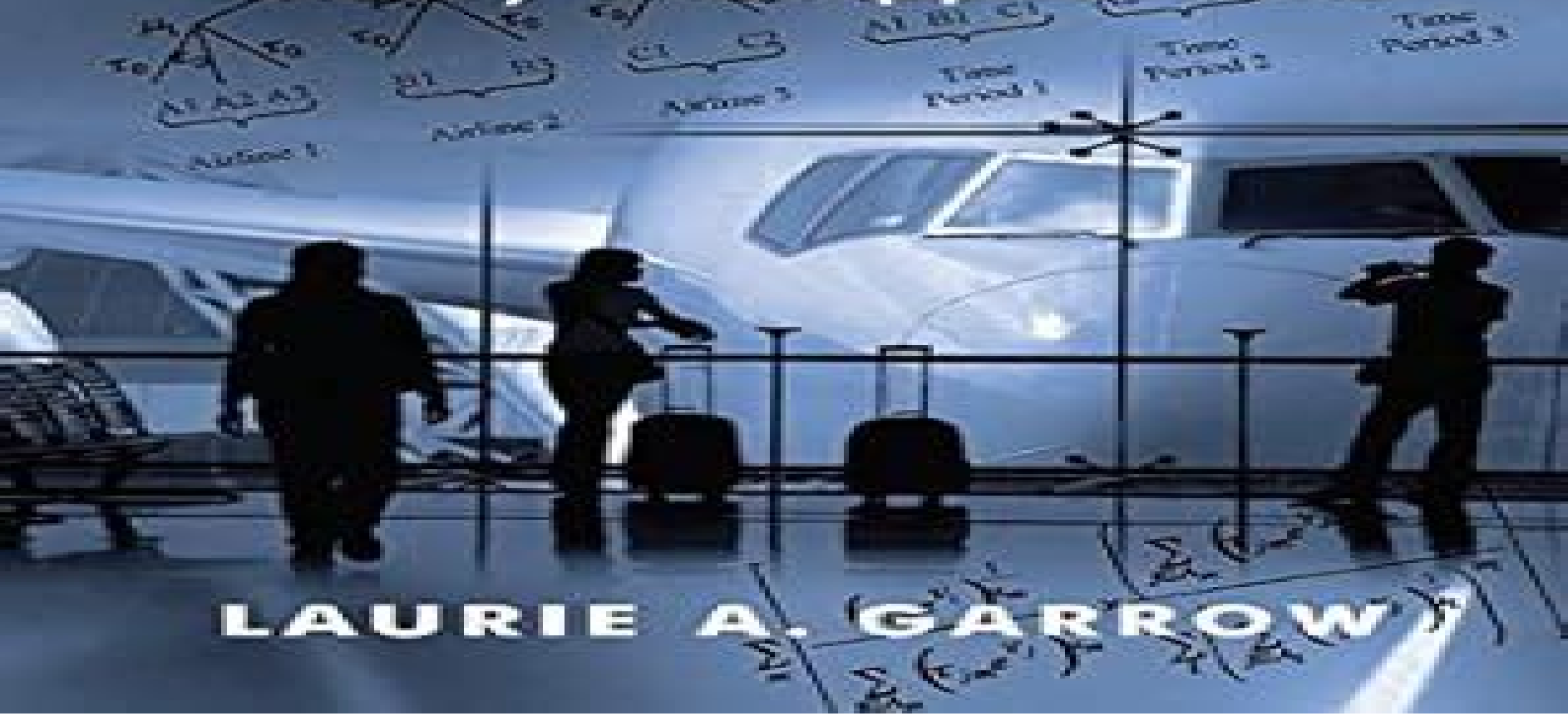


# Discrete Choice Modelling and Air Travel Demand

Theory and Applications



# Discrete Choice Modelling And Air Travel Demand Theory And Applications

**Ben Vinod**



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

**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,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

**The Routledge Companion to Air Transport Management** Nigel Halpern, Anne Graham, 2018-01-31 The Routledge Companion to Air Transport Management provides a comprehensive up to date review of air transport management research and literature This exciting new handbook provides a unique repository of current knowledge and critical debate with an international focus considering both developed and emerging markets and covering key sectors of the air transport industry The companion consists of 25 chapters that are written by 39 leading researchers scholars and industry experts based at universities research institutes and air transport companies and organisations in 12 different countries in Africa Asia Pacific Europe and North America to provide a definitive trustworthy resource The international team of contributors have proven experience of research and publication in their specialist areas and contribute to this companion by drawing upon research published mainly in academic industry and government sources This seminal companion is a vital resource for researchers scholars and students of air transport management It is organised into three parts current state of the air transport sectors Part I application of management disciplines to airlines and airports Part II and key selected themes Part III

The Evolution of Yield Management in the Airline Industry Ben Vinod, 2021-05-28 This book chronicles airline revenue management from its early origins to the last frontier Since its inception revenue management has now become an integral part of the airline business process for competitive advantage The field has progressed from inventory control of the base fare to managing bundles of base fare and air ancillaries to the precise inventory control at the individual seat level The author provides an end to end view of pricing and revenue management in the airline industry covering airline pricing advances in revenue management availability and air shopping offer management and product distribution agency revenue management impact of revenue management across airline planning and operations

and emerging technologies is travel The target audience of this book is practitioners who want to understand the basics and have an end to end view of revenue management

**Artificial Intelligence and Machine Learning in the Travel Industry** Ben Vinod, 2023-05-26 Over the past decade Artificial Intelligence has proved invaluable in a range of industry verticals such as automotive and assembly life sciences retail oil and gas and travel The leading sectors adopting AI rapidly are Financial Services Automotive and Assembly High Tech and Telecommunications Travel has been slow in adoption but the opportunity for generating incremental value by leveraging AI to augment traditional analytics driven solutions is extremely high The contributions in this book originally published as a special issue for the Journal of Revenue and Pricing Management showcase the breadth and scope of the technological advances that have the potential to transform the travel experience as well as the individuals who are already putting them into practice

**The Routledge Handbook of Transport Economics** Jonathan Cowie, Stephen Ison, 2017-08-07 The Routledge Handbook of Transport Economics offers the first state of the art overview of the discipline of transport economics as it stands today reflective of key research and policy Transport is an important area of study and one which is problem rich stimulating a great deal of debate in areas which impact on everyday lives Much of this focuses on the practicalities of the modern day phenomenon of mass movement and all of the issues which surround it The discipline of economics is central to this debate and consequently the study and application of transport economics has a chief role to play in seeking to address subjects relating to major transport issues It can be argued that at the very heart of any transport issue or problem lies the underlying economics of the situation understand that and you alleviate the problem Featuring contributions from world leading scholars and practitioners from across the globe all of the chapters within this book are written from a practical perspective theory is applied and developed using real world examples The book examines concepts issues ideas and practicalities of transport provision in five key topic areas public transport public transport reform economic development and transport modelling transport and the environment freight transport A real strength of the book is in linking theory to practice and hence the economics that are examined in this text are not the economics of the abstract but rather the economics of everyday living Practical and insightful this volume is an essential reference for any student or researcher working in all areas of transport provision ranging from planning appraisal regulation and freight and for all practitioners looking to develop their professional knowledge and who are seeking professional accreditation

*Air Transport and Regional Development Methodologies* Anne Graham, Nicole Adler, Ofelia Betancor, Volodymyr Bilotkach, Enrique J. Calderón, Gianmaria Martini, Hans Martin Niemeier, António Pais Antunes, 2020-12-27 Air Transport and Regional Development Methodologies is one of three interconnected books related to a four year European Cooperation in Science and Technology COST Action established in 2015 The action called Air Transport and Regional Development ATARD aimed to promote a better understanding of how the air transport related problems of core regions and remote regions should be addressed to enhance both economic

competitiveness and social cohesion in Europe This book discusses key methodological approaches to assessing air transport and regional development outlining their respective strengths and weaknesses These include input output analysis cost benefit analysis computable general equilibrium models data envelopment analysis stochastic frontier analysis discrete choice models and game theory Air Transport and Regional Development Methodologies aims at becoming a major reference source on the topic drawing from experienced researchers in the field covering the diverse experience and knowledge of the members of the COST Action The book will be of interest to several large groups First it will serve as an authoritative and comprehensive reference for academics researchers and consultants Second it will advise policy makers and government organizations at European national and regional levels Third it presents invaluable insights to transport companies such as airports and airline operators Along with the other two books Air Transport and Regional Development Policies and Air Transport and Regional Development Case Studies it fills a much needed gap in the literature

*Revenue-Management in der Automobilindustrie* Christian Gruß, 2009-02-14 Christian M F Gru untersucht die Anwendbarkeit von Revenue Management Modellen in der Automobilindustrie Er entwickelt ein Vorgehenskonzept zur simultanen Integration von Markt und Produktionsbedingungen bei gleichzeitiger Deckungsbeitragsoptimierung

**Fundamentals of Supply Chain Theory** Lawrence V. Snyder, Zuo-Jun Max Shen, 2019-07-11 Comprehensively teaches the fundamentals of supply chain theory This book presents the methodology and foundations of supply chain management and also demonstrates how recent developments build upon classic models The authors focus on strategic tactical and operational aspects of supply chain management and cover a broad range of topics from forecasting inventory management and facility location to transportation process flexibility and auctions Key mathematical models for optimizing the design operation and evaluation of supply chains are presented as well as models currently emerging from the research frontier Fundamentals of Supply Chain Theory Second Edition contains new chapters on transportation traveling salesman and vehicle routing problems integrated supply chain models and applications of supply chain theory New sections have also been added throughout on topics including machine learning models for forecasting conic optimization for facility location a multi supplier model for supply uncertainty and a game theoretic analysis of auctions The second edition also contains case studies for each chapter that illustrate the real world implementation of the models presented This edition also contains nearly 200 new homework problems over 60 new worked examples and over 140 new illustrative figures Plentiful teaching supplements are available including an Instructor's Manual and PowerPoint slides as well as MATLAB programming assignments that require students to code algorithms in an effort to provide a deeper understanding of the material Ideal as a textbook for upper undergraduate and graduate level courses in supply chain management in engineering and business schools Fundamentals of Supply Chain Theory Second Edition will also appeal to anyone interested in quantitative approaches for studying supply chains

**From Consumer Experience to Affective Loyalty: Challenges and Prospects in the Psychology of Consumer Behavior 3.0** María Pilar

Martínez-Ruiz, Mónica Gómez-Suárez, Ana Isabel Jiménez-Zarco, Alicia Izquierdo-Yusta, 2018-02-19 This research topic for *Frontiers in Psychology* highlights some of the more relevant changes that have conditioned consumer behavior in recent years among these the paradigm shift in marketing is worth emphasizing Today the market and the companies are implementing Marketing 4.0 This new marketing approach modifies both the business rules and the channels by changing the way to dialogue interact and relation with consumers The present Research Topic brings together 30 studies by 76 authors who analyzed the relevance of consumer behavior changes under this new paradigm using different theoretical and methodological frameworks These different papers mainly constituting original research examine a variety of sub topics including online and mobile environments value co creation internal marketing strategies and diverse industries and product markets Given this broad selection of papers we encourage readers to draw their own conclusions about the complex phenomena of consumer behavior Our hope is that these different perspectives will cover various gaps in the field and prompt discussion among the audience of *Frontiers in Psychology*

**City-Maut** Dietrich Leihs, Thomas Siegl, Martin Hartmann, 2014-11-24 Dieses Buch bietet eine umfassende Einführung in die Thematik städtischen Zufahrtsmanagements im europäischen Kontext Dabei werden sowohl gesetzliche technologische als auch volkswirtschaftliche Aspekte in Betracht gezogen So kontrovers die Diskussion über städtische Zufahrtsmanagement Systeme wie beispielsweise City Maut geführt wird so wenig kann ignoriert werden dass diese Instrumente als Verkehrsmanagementmaßnahme aus dem heutigen Alltag nicht mehr wegzudenken sind ja bereits Fußgänger und sich steigender Verwendung erfreuen

**Business in the 21st Century** Claudia Nelly Berrones-Flemmig, Francoise Contreras, Utz Dornberger, 2022-10-31 Business in the 21st Century provides a valuable framework for scholars managers leaders and business stakeholders to help navigate the incorporation of SDGs into the business world shape strategy improve practices and create a better business future

*Transport Economics* Tae Hoon Oum, 2005-11-01 First Published in 1997 This book contains a set of readings which convey clearly the fundamental concepts theory and methodologies essential for the teaching and study of transport economics The papers were carefully selected by seven prominent and experienced professors of transport economics for their usefulness in teaching As such most of the twenty seven papers included in the book deal with timeless and fundamental subjects in transport economics and have been evaluated by many instructors as being effective papers for teaching The book is organised into six parts Transport Demand Transport Cost Pricing Infrastructure Regulation and Market Structure and Project Evaluation

*ITF Round Tables* *Competitive Interaction between Airports, Airlines and High-Speed Rail* International Transport Forum, 2009-11-04 This round table proceedings examines whether and how airports should be regulated to contain market power It determines which approaches are likely to work best and also assesses strategies for managing greenhouse gas emissions including the alternative of high speed rail

Entwicklung eines individuenbasierten Modells zur Abbildung des Bewegungsverhaltens von Passagieren im Flughafenterminal Michael Schultz, 2010

**Air Transport - A Tourism Perspective** Anne

Graham, Frederic Dobruszkes, 2019-02-18 *Air Transport A Tourism Perspective* provides rigorous insights into the current complexities synergies and conflicts within air transportation and tourism presenting a balanced comprehensive contemporary and global analysis that thoroughly examines the links between theory and practice The book offers readers a multi sector global perspective on the practical implications of the link between air transport and tourism By using a novel approach it systematically explores the successive stages of a tourist's trip investigating reasons for flying the airport experience airline industry structures competition and regulation and air transportation and destination interrelationships In addition the book explores current and salient debates on such issues as the influence of traveling to visit friends and family the role of charters versus low cost carriers public subsidies to support airport development and much more Mastering the Travel Intermediaries Ben Vinod, 2024-06-25 This book chronicles the role of travel intermediaries global distribution systems GDS travel management companies TMC and online travel agencies OTA in the distribution of travel products The book covers the historical development of these intermediaries and explores their current state and future prospects Almost six decades after the introduction of computerized reservations systems and four decades after the introduction of Global Distribution Systems that allowed travel agents to make automated airline bookings the distribution of air products is amid a major transition A fundamental change is pricing power which shifts from the GDSs to the airlines for the indirect channel These changes are driven by advancements in technology market economics and airline cost controls leading to the emergence of new revenue models that will permanently alter the landscape of air distribution As a result travel intermediaries are experiencing the effects of these turbulent times and must adopt innovative approaches and initiatives to adapt and transform their business models rather than maintaining the status quo In addition to the ongoing transformation over the next decade the advancements in emerging technologies like blockchain and decentralized digital identity will further revolutionize the distribution landscape across all sectors of the travel industry **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      *Residential Location Choice* Francesca Pagliara, John Preston, David Simmonds, 2010-08-12 The effective planning of residential location choices is one of the great challenges of contemporary societies and requires forecasting capabilities and the consideration of complex interdependencies which can only be handled by complex computer models This book presents a range of approaches used to model residential locations within the context of developing land use and transport models These approaches illustrate the range of choices that modellers have to make in order to represent residential choice behaviour The models presented in this book represent the state of the art and are valuable both as key building blocks for general urban models and as representative examples of complexity science      *Urban freight transport modelling: an agent-specific approach* Edoardo Marcucci, Valerio Gatta, Eva Valeri, Amanda Stathopoulos, 2014-02-27T00:00:00+01:00 365 931

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