The future of U.S. air transportation: a simulation model of the future growth of air transport in the United States. This chapter presents a model-based approach to understanding the factors that influence the demand for air transportation in the United States. The model is based on a combination of econometric and simulation techniques, and it incorporates a wide range of variables that influence air demand, including economic variables, population growth, and technological change. The results of the model suggest that the growth of air transportation in the United States will continue to be driven by strong demand from business and leisure travelers, as well as by technological innovation and the expansion of airport capacity.

Simulation model and analysis: Simulation and analysis are integral parts of engineering and management, enabling the design and optimization of systems and processes. Simulation is a powerful tool for modeling real-world phenomena, and analysis is used to extract insights and make decisions based on the results of simulations. This chapter presents an overview of simulation and analysis, including the types of models used, the steps involved in the simulation process, and the role of analysis in interpreting simulation results.

Modeling and simulation fundamentals: This chapter provides an introduction to the fundamental concepts and techniques of modeling and simulation. It covers topics such as model types, model validation, and model verification, and it discusses the importance of simulation in engineering and management applications. The chapter also presents an overview of the simulation process, including the steps involved in defining a simulation problem, creating a model, and analyzing the results.

Handbook of Research on Computational Modeling and Simulation in Engineering: This handbook provides a comprehensive overview of computational modeling and simulation in engineering, covering a wide range of topics such as fluid dynamics, heat transfer, and structural mechanics. It includes contributions from leading experts in the field, and it presents state-of-the-art research and practical applications. The handbook is an essential resource for researchers, educators, and practitioners in the field of computational modeling and simulation.

Data mining for business analytics: This book provides an introduction to data mining and its applications in business analytics. It covers topics such as data pre-processing, data mining techniques, and model evaluation, and it includes case studies and examples from the field. The book is intended for students and professionals interested in data mining and its applications in business, and it presents a practical and hands-on approach to learning about data mining.

Modeling and Simulation of Air Transport: This chapter presents an overview of modeling and simulation in the context of air transport. It covers topics such as air traffic demand, airport capacity, and airline operations, and it provides a detailed analysis of the factors that influence air transport. The chapter also presents a simulation model of air transport, and it discusses the results of the model and their implications for policy and planning.