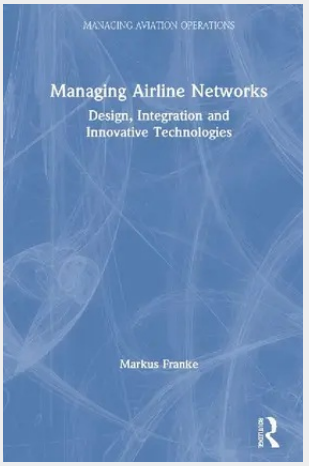
Franke

Managing Airline Networks

Design, Integration and Innovative Technologies



Managing Airline Networks: Design, Integration and Innovative Technologies is a fully comprehensive description of state-of-the-art network management practices at airlines. Designed as a compendium on current practices and future trends in the field, the book offers an instructive guide through the complex world of non-linear production systems. Written by a renowned consultant and aviation expert, the book discusses the impact of network management on airline resource planning and performance, and examines the interplay between network management and adjacent functions. The book includes a practical case study and is enriched with academic perspectives. Discussing upcoming trends in the sector, the book provides an outlook on advanced technologies that may play a role in next-generation network management. Features include: - a description of basic network types, performance indicators for profitable networks, efficient processes and success factors for network management, and common optimisation models and tools; - descriptive overviews, supported by practical examples, and leading to a deep-dive case study; - a section on trends in network management, outlining new demand forecasting models, ‘big data’ applications, machine learning and AI use cases, and alternative optimisation models for airlines. Managing Airline Networks: Design, Integration and Innovative Technologies is designed as a comprehensive compendium and is essential reading for both aviation practitioners and students of airline management.

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