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Titolo	DNA polymerases [[electronic resource]] : discovery, characterization and functions in cellular DNA transactions // Ulrich Hubscher ... [et al.]
Pubbl/distr/stampa	Singapore, : World Scientific, c2010
ISBN	1-282-76359-8 9786612763595 981-4299-17-0
Descrizione fisica	1 online resource (340 p.)
Altri autori (Persone)	HubscherUlrich
Disciplina	572.86
Soggetti	DNA polymerases Biochemistry Electronic books.
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; Contents; 1. History and Discovery of DNA Polymerases; 2. DNA Polymerases in the Three Kingdoms of Life: Bacteria, Archaea and Eukaryotes; 3. Structural and Functional Aspects of the Prokaryotic and Archaea DNA Polymerase Families; 4. Structural and Functional Aspects of the Eukaryotic DNA Polymerase Families; 5. Global Functions of DNA Polymerases; 6. Viral DNA Polymerases; 7. Synthetic Evolution of DNA Polymerases with Novel Properties; 8. DNA Polymerases and Diseases; 9. DNA Polymerases and Chemotherapy
Sommario/riassunto	Maintenance of the information embedded in the genomic DNA sequence is essential for life. DNA polymerases play pivotal roles in the complex physiological processes of DNA replication and repair. Besides the tasks in vivo, DNA polymerases are the workhorses in numerous biotechniques such as polymerase chain reaction (PCR), cDNA cloning, genome sequencing, nucleic acids-based diagnostics, as well as techniques to analyze ancient and otherwise damaged DNA. The authors have recently witnessed the discovery of a plethora of novel DNA polymerases with specialized properties whose physiological func

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Titolo	Airline industry : strategies, operations and safety // Connor R. Walsh, editor
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ISBN	1-61122-423-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (254 p.)
Collana	Transportation infrastructure :roads, highways, bridges, airports and mass transit
Altri autori (Persone)	WalshConnor R
Disciplina	387.7068/4
Soggetti	Airlines Aeronautics, Commercial
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- AIRLINE INDUSTRY STRATEGIES, OPERATIONS AND SAFETY -- AIRLINE INDUSTRY STRATEGIES, OPERATIONS AND SAFETY -- CONTENTS -- PREFACE -- Chapter 1 A FINANCIAL HISTORY AND ANALYSIS OF THE U.S. AIRLINE INDUSTRY -- ABSTRACT -- I. INTRODUCTION -- II. A BRIEF FINANCIAL HISTORY OF THE U.S. AIRLINE INDUSTRY -- A. The Paradox of the Airline Industry -- B. The Pre-Regulation Period (1914-1938) -- C. The Period of Regulation (1938-1978) -- Regulation of entry into a market -- Regulation of exiting from a market -- The regulation of services -- The regulation of prices -- The beginning of deregulation -- D. The Post-Regulation Period (1978-2001) -- E. The Post-Terrorist Period (2001 - Present) -- III. EARNINGS BEHAVIOR AND DIVIDENDS IN THE AIRLINE INDUSTRY -- A. Earnings Behavior in the Airline Industry -- Prior literature -- Descriptive statistics -- Data and methodology -- Results -- Summary and implications -- B. Dividends in the Airline Industry -- Prior literature -- Methodology -- Results -- Summary and implications -- IV. THE RISKS OF AIRLINE OWNERSHIP -- Prior Literature -- Regulatory effects -- Inflationary and airline safety effects -- Data and Methodology -- Difference of means regressions -- Market risk -- Results -- Summary and Implications -- V. FINANCING DECISIONS IN THE AIRLINE INDUSTRY -- A. Leverage, Economic Regulation and Shareholder Wealth -- Prior literature -- Data and methodology --

Results -- Summary and implications -- B. Does the Use of Operating Leases Create Value? -- Data and methodology -- Results -- A note on the tax consequences of debt versus operating leases -- VI. SUMMARY, IMPLICATIONS AND EXTENSIONS -- REFERENCES -- Chapter 2 AIRLINE OPERATIONS CONTROL: A NEW CONCEPT FOR OPERATIONS RECOVERY -- ABSTRACT -- 1. INTRODUCTION -- 2. SUMMARY OF RELATED WORK -- 2.1. Operations Recovery. 2.2. Other Application Domains -- 3. AIRLINE OPERATIONS CONTROL -- 3.1. Airline Scheduling Problem -- 3.2. AOCC Organization -- 3.3. Typical Problems -- 3.4. Current Disruption Management Process -- 3.5. Main Costs Involved -- 3.6. Current Tools and Systems -- 4. A NEW CONCEPT FOR OPERATIONS RECOVERY -- 4.1. Introduction -- 4.2. Why an Agent and Multi-Agent System Paradigm? -- 4.3. MAS Architecture -- 4.4. Decision Mechanisms -- 4.4.1. Manager agents level negotiation -- 4.4.2. Team level negotiation -- 4.5. Quality Operational Costs -- 4.5.1. Quantifying Quality Costs -- 4.5.2. Airline example -- 4.6. Problem Solving Algorithms -- 5. EXPERIMENTAL SETUP -- 6. RESULTS AND DISCUSSION -- 7. CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- Chapter 3 OUTSOURCING STRATEGIES OF FULL-SERVICE AIRLINES: AN APPLICATION OF TWO THEORETICAL PERSPECTIVES -- INTRODUCTION -- THE INDUSTRY CONTEXT -- THE THEORETICAL UNDERPINNINGS OF OUTSOURCING -- THE INVESTIGATION -- FINDINGS AND DISCUSSION -- MAJOR ORGANISATIONAL FUNCTIONS OF INTERNATIONAL AIRLINES -- 1. Plane Acquisition and Ownership -- 2. Engineering and Aircraft Maintenance -- 3. Customer Sales and Ticketing -- 4. In-Flight Catering -- 5. Corporate Identity and Brand Management -- DISCUSSION AND CONCLUSIONS -- REFERENCES -- Chapter 4 THE PRICING STRATEGY OF RYANAIR -- ABSTRACT -- 1. RYANAIR'S BUSINESS MODEL -- 1.1. Deregulation and LCC Spread -- 1.2. Ryanair History -- Historic facts -- Ryanair economic performance -- 1.3. Success Factors -- Market opportunity recognized -- Strategy -- 1.4. Network Structure -- 2. THE PRICING STRATEGY OF RYANAIR -- 2.1. Methodological Aspects -- 2.2. Empirical Findings -- CONCLUSIONS -- REFERENCES -- Chapter 5 MEASURING AND BENCHMARKING AIRPORT EFFICIENCY: AN APPLICATION OF DATA ENVELOPMENT ANALYSIS (DEA) AND STOCHASTIC FRONTIER ANALYSIS (SFA) -- ABSTRACT -- 1. INTRODUCTION. 2. BACKGROUND -- 3. MODEL VARIABLES -- 4. THE DATA ENVELOPMENT ANALYSIS MODEL -- 4.1. The Characteristics of the DEA Model -- 4.2. An Illustration of a DEA Model -- 5. THE STOCHASTIC FRONTIER ANALYSIS MODEL -- 5.1. The Characteristics of the SFA Model -- 5.2. An Illustration of an SFA Model -- 2.1. The Model -- 2.2. Interpretation of the Model Outputs -- 6. CONCLUSION -- REFERENCES -- 8. APPENDIX -- Chapter 6 EVIDENCE-BASED PROCESS (EBP) CONSIDERATIONS OF HYPOXIA DURING FLIGHT FOR FLIGHT NURSES: THE AEROHEMODYNAMICS THEORY REVISITED -- ABSTRACT -- AEROHEMODYNAMICS THEORY -- Definition -- Applicability to Broad Scope of Practice -- CONCEPTS -- Acceleration Forces -- Nursing Challenges- Acceleration Stress -- Barotrauma -- Nursing Challenges -- Thermostability -- Nursing Challenges -- Gaseous Toxicities, Diffusion and Vacuolization -- Nursing Challenges -- Radiation Exposure -- Nursing Challenges -- Psychosocial Considerations -- Nursing Challenges -- Aerohemodynamics Theory Effect Equation -- Acceleration Force Changes -- Motion Sickness Susceptibility -- Barotrauma -- Thermostability -- Gaseous Toxicities -- Radiation and Other Safety Hazards -- NURSING IMPLICATIONS -- NURSING RESEARCH -- CONCLUSION -- REFERENCES -- Chapter 7 CORPORATE

SOCIAL RESPONSIBILITY REPORTING OF ASIAN AIRLINES -- ABSTRACT -- 1. INTRODUCTION -- 2. CORPORATE SOCIAL RESPONSIBILITY -- 3. METHOD -- 4. RESULTS -- 4.1. CSR Reporting Formats -- 4.2. CSR Organization -- 4.3. The Marketplace -- 4.4. Workplace -- 4.5. Community -- 4.6. Environment -- 5. CONCLUSION -- REFERENCES -- Chapter 8 SERVICE QUALITY AND INTERNAL DIFFERENCES AMONG MEMBERS OF THE AIRLINE ALLIANCES -- ABSTRACT -- INTRODUCTION -- HYPOTHESES -- RESULTS -- CONCLUSION -- REFERENCES -- Chapter 9 DAYS ON AND DAYS OFF SCHEDULING OF PILOTS UNDER A VARIABLE WORKLOAD -- Abstract -- 1. Introduction. 2. Basic Characteristics of the Airline Crew Rostering Problem -- 3. Bridging the gap between schedule consistency and flexibility -- 3.1. Pure Cyclical Scheduling -- Pure cyclical scheduling in the assumption of an equal demand -- Pure cyclical scheduling under a variable workload -- Pure cyclical scheduling combining multiple work patterns -- 3.2. Ad hoc Scheduling Combining Multiple Fixed Work Patterns -- 3.3. Subdividing the workforce into different groups for crew rostering -- 3.4. Extension with an 'ad hoc' Rostering Component -- 4. Conclusions and Future Research -- Acknowledgments -- References -- Chapter 10 PRICING AND TRAVELERS' DECISION TO USE FREQUENT FLYER MILE S: EVIDENCE FROM THE U.S. AIRLINE INDUSTRY -- Abstract -- 1. Introduction -- 2. Frequent Flyer Programs -- 3. Empirical Approach -- 3.1. Sources of Data and Sample -- 3.2. Model Setup -- 3.3. Estimated Equation and Panel Structure -- 3.4. Instruments -- 4. Empirical Results -- 4.1. Summary Statistics -- 4.2. Trend and Route Specific Characteristics -- 4.3. The Price Effect -- 4.4. Airport Dominance -- 4.5. Product Quality and Capacity Constraints -- 5. A Simple Model of the Price Effect -- 6. Conclusion -- A Variable Construction -- B First Stage Regressions -- References -- INDEX.

Sommario/riassunto

This book presents a comprehensive review of the strategies, operations and safety of the airline industry. Topics discussed herein include a financial history and analysis of the U.S. airline industry, outsourcing strategies of full-service airlines, measuring and benchmarking airport efficiency, service quality and internal differences among members of the airline alliances, measures used to schedule airline crew under a variable workload using fixed days on and days off patterns, and frequent flyer mile usage among passengers.