

# Table of Contents

Foreword .....	ix
Carl J. Schramm and William J. Baumol	
Preface .....	xiii
Contributors .....	xv
Introduction: Why a Handbook? .....	1
Paul P. Maglio, Cheryl A. Kieliszewski, and James C. Spohrer	

## Part 1: Context: Origins

Revisiting “Where Does the Customer Fit in a Service Operation?” Background and Future Development of Contact Theory .....	11
Richard B. Chase	
The Service Profit Chain: From Satisfaction to Ownership .....	19
James L. Heskett and W. Earl Sasser, Jr.	
Winning the Service Game: Revisiting the Rules by Which <i>People</i> Co-Create Value .....	31
Benjamin Schneider and David E. Bowen	
Customer Equity: Driving the Value of the Firm by Increasing the Value of Customers .....	61
Roland T. Rust and Gaurav Bhalla	
Service Worlds: The ‘Services Duality’ and the Rise of the ‘Manuservice’ Economy .....	79
John R. Bryson and Peter W. Daniels	

**Part 2: Context: Theory**

The Unified Service Theory: A Paradigm for Service Science ..... 107  
Scott E. Sampson

Advancing Service Science with Service-Dominant Logic:  
Clarifications and Conceptual Development ..... 133  
Stephen L. Vargo, Robert F. Lusch, and Melissa A. Akaka

Toward a Science of Service Systems: Value and Symbols ..... 157  
James C. Spohrer and Paul P. Maglio

**Part 3: Research and Practice: Design**

Technology’s Impact on the Gaps Model of Service Quality ..... 197  
Mary Jo Bitner, Valarie A. Zeithaml, and Dwayne D. Gremler

Seven Contexts for Service System Design ..... 219  
Robert J. Glushko

Business Architectures for the Design of Enterprise Service Systems ..... 251  
Susanne Glissmann and Jorge Sanz

A Service Practice Approach: People, Activities and Information  
in Highly Collaborative Knowledge-based Service Systems ..... 283  
Cheryl A. Kieliszewski, John H. Bailey, and Jeanette Blomberg

**Part 4: Research and Practice: Operations**

The Neglect of Service Science in the Operations Management Field ..... 309  
Richard Metters

Death Spirals and Virtuous Cycles: Human Resource Dynamics in  
Knowledge-Based Services ..... 321  
Rogelio Oliva and John D. Sterman

<b>Service Science: A Reflection from Telecommunications Service</b>	
Perspective .....	359
Eng K. Chew	
<b>Service Engineering: Multiperspective and Interdisciplinary Framework for New Solution Design</b> .....	387
Gerhard Gudergan	

## **Part 5: Research and Practice: Delivery**

<b>The Industrialization of Information Intensive Services</b> .....	419
Uday S. Karmarkar	
<b>Workforce Analytics for the Services Economy</b> .....	437
Aleksandra Mojsilović and Daniel Connors	
<b>Understanding Complex Product and Service Delivery Systems</b> .....	461
William B. Rouse and Rahul C. Basole	
<b>A Formal Model of Service Delivery</b> .....	481
Guruduth Banavar, Alan Hartman, Lakshmith Ramaswamy, and Anatoly Zhrebtsov	

## **Part 6: Research and Practice: Innovation**

<b>Service Innovation</b> .....	511
Ian Miles	
<b>Innovation in Services and Entrepreneurship: Beyond Industrialist and Technologist Concepts of Sustainable Development</b> .....	535
Faridah Djellal and Faïz Gallouj	
<b>Service Innovation and Customer Co-development</b> .....	561
Bo Edvardsson, Anders Gustafsson, Per Kristensson and Lars Witell	
<b>Advancing Services Innovation: Five Key Concepts</b> .....	579
Henry Chesbrough and Andrew Davies	

What Effects Do Legal Rules Have on Service Innovation? ..... 603  
Pamela Samuelson

**Part 7: Future**

The Future of Service Is Long Overdue ..... 625  
Evert Gummesson

The Evolution and Future of Service: Building and Broadening  
a Multidisciplinary Field ..... 643  
Raymond P. Fisk and Stephen J. Grove

Trading Zones, Normative Scenarios, and Service Science ..... 665  
Michael E. Gorman

The Cambridge-IBM SSME White Paper Revisited ..... 677  
James C. Spohrer, Mike Gregory, and Guangjie Ren

Service Science, Management, and Engineering in Japan ..... 707  
Kazuyoshi Hidaka

Innovation and Skills: Future Service Science Education ..... 717  
Linda Macaulay, Claire Moxham, Barbara Jones, and Ian Miles

Author Index ..... 737

Subject Index ..... 755