
Contents

**Introduction to Standardisation Strategies in China and India:
Industrial Policy and Geopolitics and Implications for Europe 1**
Joachim Freimuth, Siglinde Kaiser, and Monika Schädler

Part I Standardization: Context and Framework

The Underestimated Power of Technical Standards 19
Joachim Freimuth

Quality Infrastructure: National Systems and International Context . . . 63
Ulrich Harnes-Liedtke

**Terminology Used in Standardisation: An International
(and Culture-Specific) Perspective 79**
Siglinde Kaiser

**The Standardization of Digital Technologies in Practice:
The 5G Example 93**
Ulrich Sandl

Part II Standardization in China

China’s Modernization and Industrial Policy 109
Helmut Janus

The Modernization of the Chinese Standardization System 123
Sabrina Weithmann

**An Overview on Legislation and Organization of Standardization
in China: With Special Reference to Consumer Products 133**
Xia Liu

China’s Standardisation Strategy: Emergence and Contents 151
Monika Schädler

A Comparison of the Standardization Systems in the EU and in China and the Role of SESEC	167
Betty Xu	
German-Chinese Cooperation in Standardization	179
Sibylle Gabler and Monika Schädler	
Challenges of Standardizing in China's Automotive Industry: A Field Report	191
Tilman Tillmann, Joachim Freimuth, Siglinde Kaiser, and Monika Schädler	
Building Standards in Germany and China: Comparative Observations and Implications for the Global and German Construction Markets	205
Andreas Gerdes and Jessica Le	
Standardization in China's Building Energy Efficiency Industry: The Development of a National Standard for Passive Houses in China	217
Susann Lüdtke	
Data Collection, Use, and Security: Developments in China	231
Florian Kessler, Jost Blöchl, and Yahui Mao	
Part III Standardization in India	
India's Economic Development, Policies and Current Problems	265
Joachim Betz	
Current Challenges in India's Quality Promotion Strategy	279
Ravi P. Singh, Rajesh Maheshwari, and Rudraneel Chattopadhyay	
Challenges for India in the WTO Regime	299
Anil Jauhri	
Development of the Indian National Strategy for Standardization	315
Anupam Kaul	
The Role of Industry Associations in Enhancing Quality and Capacity Building in India: The Example of the Confederation of Indian Industry	329
Vipin Sahni and N. Deep	
Cooperation Between the EU and India with a Focus on Standardisation	341
Dinesh Chand Sharma	
Promoting Indo-German Trade with Standards: Role of the Global Project Quality Infrastructure (GPQI)	357
Alok Kesari, Himanshu Dhundia, and Khushwant Singh	

Energy Policy and Energy Standards in India	369
Joachim Betz	
The Example of Standards for the Food Sector	381
Shashi Sareen	
The Example of Standards for the Healthcare Sector	401
Harish Nadkarni and Anita Nadkarni	
Broadband Communication Standards and Rural India	413
Pranav Jha and Abhay Karandikar	
 Part IV Conclusion: Standardization in India and China and What Does This Mean for Europe and Germany?	
Standardisation in India and China from a Corporate Perspective	433
Matthias Gommel, Joachim Freimuth, Siglinde Kaiser, and Monika Schädler	
China’s New Technical Standardisation Power: A Challenge for Europe	445
Tim Nicholas Rühlig	
A Comparison of China’s and India’s Standardisation Strategies: 11 Theses and Implications for Germany and Europe	465
Joachim Freimuth, Siglinde Kaiser, and Monika Schädler	