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Autore	Aritenang Adiwan Fahlan
Titolo	The impact of state restructuring on Indonesia's regional economic convergence / / Adiwan Fahlan Aritenang
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Nota di contenuto	Frontmatter -- CONTENTS -- LIST OF TABLES -- LIST OF FIGURES -- PREFACE / Aritenang, Adiwan Fahlan -- ABBREVIATIONS -- 1. Introduction -- 2. State Restructuring and Regional Convergence: A Review of Theories and Debates -- 3. Indonesia and Its Regional Development Since the 1980s: An Inheritance from the New Order Regime -- 4. Dynamics of Regional Economic Convergence -- 5. Decentralization and the ASEAN FTA Impact on Regional Economic Convergence -- 6. The Institutional Effects on Regional Policies and Development: A Historical Institutionalist Perspective -- 7. State Restructuring in Indonesia: Towards a Balanced Regional Economic Development -- Appendices -- Appendix A: Regional Inequality Measurements -- Appendix B: The Convergence Research Model -- Appendix C: Convergence Model: Traditional and Spatial Econometrics -- Appendix D: Tariff Data Construction -- Appendix E: Tariff Impact -- Appendix F: Decentralization and AFTA Indices -- Appendix G: Historical Institutionalism Research Methodology -- REFERENCES -- INDEX -- ABOUT THE AUTHOR
Sommario/riassunto	The creation of ASEAN Free Trade Area (AFTA) in 1992 and decentralization in 1999 mark the state restructuring in Indonesia. This book analyses the impact of state restructuring on regional economic

	development in Indonesia between 1993 and 2010. Regional economic analysis shows persistent and severe regional disparities throughout the period. Particularly, econometrics study found that decentralization has accelerated regional disparities whilst the AFTA effect is insignificant on regional economic growth. Furthermore, historical institutionalism analysis on two cities - the manufacturing industry in Batam and the creative economy in Bandung - shows that past and embedded local institutions provide the capacity to adapt and create new development paths. The book suggests the importance of local-specific policies that embrace local knowledge and institutions to develop regional specialization and competitive advantage. This book fills the gap in Indonesian literature that lacks studies on the integrated impact of decentralization and trade liberalization, both economically and politically.

2.

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Autore	You Huan
Titolo	Traffic Congestion Control by PDE Backstepping / / by Huan Yu, Miroslav Krstic
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ISBN	3-031-19346-6
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Collana	Systems & Control: Foundations & Applications, , 2324-9757
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Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Backstepping for Coupled Hyperbolic PDEs -- Part I: Basic Backstepping Control of Freeway Traffic -- Stabilization of ARZ Model with Known Parameters and Fundamental Diagram -- Observer Validation on Freeway Data -- Adaptive Control of ARZ Traffic Model -- Event-Triggered Control of ARZ Model -- Comparison of Backstepping with Reinforcement Learning -- Part II: Advanced Backstepping for Traffic Flows -- Two-Lane Traffic Control -- Two-Class Traffic Control -- Control of Two-Cascaded Freeway Segments -- Estimation of Freeway Diverge Flows -- Control under Routing-Induced Instability -- Bilateral Regulation of Moving Shock Position -- Extremum Seeking of Downstream Bottleneck.
Sommario/riassunto	This monograph explores the design of controllers that suppress oscillations and instabilities in congested traffic flow using PDE backstepping methods. The first part of the text is concerned with basic backstepping control of freeway traffic using the Aw-Rascle-Zhang (ARZ) second-order PDE model. It begins by illustrating a basic control problem – suppressing traffic with stop-and-go oscillations downstream of ramp metering – before turning to the more challenging case for traffic upstream of ramp metering. The authors demonstrate how to design state observers for the purpose of stabilization using output-feedback control. Experimental traffic data are then used to calibrate the ARZ model and validate the boundary observer design. Because large uncertainties may arise in traffic models, adaptive control and reinforcement learning methods are also explored in detail. Part II then extends the conventional ARZ model utilized until this point in orderto address more complex traffic conditions: multi-lane traffic, multi-class traffic, networks of freeway segments, and driver use of routing apps. The final chapters demonstrate the use of the Lighthill-Whitham-Richards (LWR) first-order PDE model to regulate congestion in traffic flows and to optimize flow through a bottleneck. In order to make the text self-contained, an introduction to the PDE backstepping method for systems of coupled first-order hyperbolic PDEs is included. Traffic Congestion Control by PDE Backstepping is ideal for control theorists working on control of systems modeled by PDEs and for traffic engineers and applied scientists working on unsteady traffic flows. It will also be a valuable resource for researchers interested in boundary control of coupled systems of first-order hyperbolic PDEs.