

1. Record Nr.	UNINA9910254226403321
Autore	Zhang Jian
Titolo	Robust Observer-Based Fault Diagnosis for Nonlinear Systems Using MATLAB® // by Jian Zhang, Akshya Kumar Swain, Sing Kiong Nguang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-32324-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XIII, 224 p. 44 illus., 42 illus. in color.)
Collana	Advances in Industrial Control, , 1430-9491
Disciplina	620.0044
Soggetti	Automatic control Chemical engineering Aerospace engineering Astronautics Robotics Automation Control and Systems Theory Industrial Chemistry/Chemical Engineering Aerospace Technology and Astronautics Robotics and Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Detection and Isolation of Actuator Faults -- Detection and Isolation of Sensor Faults -- Robust Estimation of Actuator Faults -- Robust Estimation of Sensor Faults -- Simultaneous Estimation of Actuator and Sensor Faults Using SMO and AO -- Simultaneous Estimation of Actuator and Sensor Faults Using SMO and UIO -- Simultaneous Estimation of Actuator and Sensor Faults for Descriptor Systems -- Conclusions and Future Work -- Appendices: Solving Linear Matrix Inequality (LMI) Problems; Proof of Lemma 3.1.
Sommario/riassunto	This book introduces several observer-based methods, including: • the sliding-mode observer • the adaptive observer • the unknown-input observer and • the descriptor observer method for the problem of fault detection, isolation and estimation, allowing readers to compare and

contrast the different approaches. The authors present basic material on Lyapunov stability theory, $H\infty$ control theory, sliding-mode control theory and linear matrix inequality problems in a self-contained and step-by-step manner. Detailed and rigorous mathematical proofs are provided for all the results developed in the text so that readers can quickly gain a good understanding of the material. MATLAB® and Simulink® codes for all the examples, which can be downloaded from <http://extras.springer.com>, enable students to follow the methods and illustrative examples easily. The systems used in the examples make the book highly relevant to real-world problems in industrial control engineering and include a seventh-order aircraft model, a single-link flexible joint robot arm and a satellite controller. To help readers quickly find the information they need and to improve readability, the individual chapters are written so as to be semi-independent of each other. Robust Observer-Based Fault Diagnosis for Nonlinear Systems Using MATLAB® is of interest to process, aerospace, robotics and control engineers, engineering students and researchers with a control engineering background. Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

2. Record Nr.	UNINA9910299659403321
Titolo	New Perspectives on the History of Political Economy / / edited by Robert Fredona, Sophus A. Reinert
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Palgrave Macmillan, , 2018
ISBN	9783319582474 331958247X
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (xxxii, 413 pages) : illustrations
Disciplina	320.97301
Soggetti	Economics - History Economic history International economic relations Development economics Evolutionary economics Institutional economics History of Economic Thought and Methodology Economic History International Political Economy' Development Economics Institutional and Evolutionary Economics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction -- Chapter 2. Genoa, Liguria, and the Regional Development of Medieval Public Debt -- Chapter 3. Angelo degli Ubaldi and the Gulf of the Venetians: Custom, Commerce, and the Control of the Sea before Grotius -- Chapter 4. Capitalism and the Special Economic Zone, 1590-2014 -- Chapter 5. <i>Theatrum Oeconomicum</i> : Anders Berch and the Dramatization of the Swedish Improvement Discourse -- Chapter 6. Gulliver's Travels, Party Politics, and Empire -- Chapter 7. Commerce, not Conquest: Political Economic Thought in the French Indies Company, 1719-1769 -- Chapter 8. The Economics of the Antipodes: French Naval Exploration, Trade, and Empire in

the 19th Century -- Chapter 9. A 'Surreptitious Introduction': Opium Smuggling and Colonial State Formation in Late 19th Century Bengal and Burma -- Chapter 10. A Place in the Sun: Rethinking the Political Economy of German Overseas Expansion and Navalism before the Great War -- Chapter 11. Wesley Mitchell's Business Cycles after 100 Years -- Chapter 12. On a Certain Blindness in Economic Theory: Keynes' Giraffes and the Ordinary Textuality of Economic Ideas -- Chapter 13. Between Economic Planning and Market Competition: Institutional Law and Economics in the US -- Chapter 14. The '73 Graft: Punishment, Political Economy, and the Genealogy of Morals.

Sommario/riassunto

This volume offers a snapshot of the resurgent historiography of political economy in the wake of the ongoing global financial crisis, and suggests fruitful new agendas for research on the political-economic nexus as it has developed in the Western world since the end of the Middle Ages. *New Perspectives on the History of Political Economy* brings together a select group of young and established scholars from a wide variety of disciplinary backgrounds-history, economics, law, and political science-in an effort to begin a re-conceptualization of the origins and history of political economy through a variety of still largely distinct but complementary historical approaches-legal and intellectual, literary and philosophical, political and economic-and from a variety of related perspectives: debt and state finance, tariffs and tax policy, the encouragement and discouragement of trade, merchant communities and companies, smuggling and illicit trades, mercantile and colonial systems, economic cultures, and the history of economic doctrines more narrowly construed. The first decade of the twenty-first century, bookended by 9/11 and a global financial crisis, witnessed the clamorous and urgent return of both 'the political' and 'the economic' to historiographical debates. It is becoming more important than ever to rethink the historical role of politics (and, indeed, of government) in business, economic production, distribution, and exchange. The artefacts of pre-modern and modern political economy, from the fourteenth through the twentieth centuries, remain monuments of perennial importance for understanding how human beings grappled with and overcame material hardship, organized their political and economic communities, won great wealth and lost it, conquered and were conquered. The present volume, assembling some of the brightest lights in the field, eloquently testifies to the rich and powerful lessons to be had from such a historical understanding of political economy and of power in an economic age.
