1.	Record Nr.	UNINA9910743385103321
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	Titolo	Impulsive Systems with Delays : Stability and Control / / by Xiaodi Li, Shiji Song
	Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
	ISBN	981-16-4686-4
		981-16-4687-2
	Edizione	[1st ed. 2022.]
	Descrizione fisica	1 online resource (449 pages)
	Collana	Intelligent Technologies and Robotics Series
	Disciplina	517.5
	Soggetti	Control engineering
		Automation
		System theory
		Control theory
		Control and Systems Theory
		Systems Theory, Control
		Complex Systems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Introduction -- Definitions and Basic Theory -- Impulsive Systems with Delays -- Impulsive Systems with Delayed Impulses -- Impulsive Systems with Event -- Triggered Mechanism.
	Sommario/riassunto	This book systematically presents the most recent progress in stability and control of impulsive systems with delays. Impulsive systems have recently attracted continued high research interests because they provide a natural framework for mathematical modeling of many real-world processes. It focuses not only on impulsive delayed systems, but also impulsive systems with delayed impulses and impulsive systems with event-triggered mechanism, including their Lyapunov stability, finite-time stability and input-to-state stability synthesis. Special attention is paid to the bilateral effects of the delayed impulses, where comprehensive stability properties are discussed in the framework of time-dependent and state-dependent delays. New original work with event-triggered impulsive control and its applications in multi-agent systems and collective dynamics are also provided. This book will be of

use to specialists who are interested in the theory of impulsive differential equations and impulsive control theory, as well as high technology specialists who work in the fields of complex networks and applied mathematics. Also, instructors teaching graduate courses and graduate students will find this book a valuable source of nonlinear system theory.