1.	Record Nr.	UNISA996202187803316
	Autore	Ammari Kaïs
	Titolo	Stabilization of Elastic Systems by Collocated Feedback [[electronic resource] /] / by Kaïs Ammari, Serge Nicaise
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-10900-6
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (XI, 178 p. 3 illus., 2 illus. in color.)
	Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2124
	Disciplina	515.392
	Soggetti	Partial differential equations
		System theory
		Partial Differential Equations
		Systems Theory, Control
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Some backgrounds -- Stabilization of second order evolution equations by a class of unbounded feedbacks -- Stabilization of second order evolution equations with unbounded feedback with delay -- Asymptotic behaviour of concrete dissipative systems -- Systems with delay -- Bibliography.
	Sommario/riassunto	By introducing a new stabilization methodology, this book characterizes the stability of a certain class of systems. The stability (exponential, polynomial, or weaker) for the closed loop problem is reduced to an observability estimate for the corresponding uncontrolled system combined with a boundedness property of the transfer function of the associated open loop system. A similar strategy is applied to systems where a delay term is added. The book concludes with many concrete examples. This book is addressed to graduate students in mathematics or engineering and also to researchers with an interest in stabilization and control systems governed by partial differential equations.