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Titolo	Modeling and control of magnetic fluid deformable mirrors for adaptive optics systems / / Zhizheng Wu, Azhar Iqbal, Foued Ben Amara
Pubbl/distr/stampa	Heidelberg, : Springer, 2013
ISBN	1-283-74087-7 3-642-32229-8
Descrizione fisica	1 online resource (322 p.)
Altri autori (Persone)	IqbalAzhar Ben AmaraFoued
Disciplina	600
Soggetti	Optics, Adaptive Optical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Adaptive Optics Systems -- Magnetic Fluid Deformable Mirrors -- Analytical Model of a Magnetic Fluid Deformable Mirror -- Design of a Magnetic Fluid Deformable Mirror and Experimental Model Validation -- Control System Design -- Decentralized PID Controller Design -- Centralized Optimal Controller Design.
Sommario/riassunto	Modeling and Control of Magnetic Fluid Deformable Mirrors for Adaptive Optics Systems presents a novel design of wavefront correctors based on magnetic fluid deformable mirrors (MFDM) as well as corresponding control algorithms. The presented wavefront correctors are characterized by their linear, dynamic response. Various mirror surface shape control algorithms are presented along with experimental evaluations of the performance of the resulting adaptive optics systems. Adaptive optics (AO) systems are used in various fields of application to enhance the performance of optical systems, such as imaging, laser, free space optical communication systems, etc. This book is intended for undergraduate and graduate students, professors, engineers, scientists and researchers working on the design of adaptive optics systems and their various emerging fields of application. Zhizheng Wu is an associate professor at Shanghai University, China. Azhar Iqbal is a research associate at the University of Toronto,

	Canada. Foued Ben Amara is an assistant professor at the University of Toronto, Canada.

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Titolo	When research goes off the rails : why it happens and what you can do about it / / edited by David L. Streiner and Souraya Sidani
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ISBN	1-282-31918-3 9786612319181 1-60623-413-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (416 p.)
Altri autori (Persone)	StreinerDavid L SidaniSouraya
Disciplina	150.72 300.72
Soggetti	Psychology - Research - Methodology Medical sciences - Research - Methodology
Lingua di pubblicazione	Inglese
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Nota di contenuto	Front matter; Chapter 1; Chapter 2; Chapter 3; Chapter 4; Chapter 5; Chapter 6; Chapter 7; Chapter 8; Chapter 9; Chapter 10; Chapter 11; Chapter 12; Chapter 13; Chapter 14; Chapter 15; Chapter 16; Chapter 17; Chapter 18; Chapter 19; Chapter 20; Chapter 21; Chapter 22; Chapter 23; Chapter 24; Chapter 25; Chapter 26; Chapter 27; Chapter 28; Chapter 29; Chapter 30; Chapter 31; Chapter 32; Chapter 33; Chapter 34; Chapter 35; Chapter 36; Chapter 37; Chapter 38; Chapter 39; Chapter 40; Chapter 41; Chapter 42; Chapter 43; Chapter 44; Index; About the Editors; Contributors
Sommario/riassunto	Few behavioral or health science studies proceed seamlessly. This refreshingly candid guide presents firsthand vignettes of obstacles on the bumpy road of research and offers feasible, easy-to-implement solutions. Contributors from a range of disciplines describe real-world problems at each stage of a quantitative or qualitative research project?

from gaining review board approval to collecting and analyzing data? and discuss how these problems were resolved. A detailed summary chart helps readers quickly find material on specific issues, methods, and settings. Writ