

1. Record Nr.	UNINA9910866583303321
Autore	Jing Xingjian
Titolo	The Bio-inspired X-Structure/Mechanism Approach for Exploring Nonlinear Benefits in Engineering : Part I-Nonlinear Stiffness and Nonlinear Damping // by Xingjian Jing
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819734924 9789819734917
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (407 pages)
Collana	Engineering Series
Disciplina	515.39
Soggetti	Dynamics Nonlinear theories Automatic control Robotics Automation Applied Dynamical Systems Control, Robotics, Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to the bio-inspired X-structure mechanism approach -- The symmetric X shaped structure -- The horizontally asymmetric X-shaped structure -- The vertically asymmetric X shaped structure -- Nonlinear dynamics in X shaped structure -- Multi DoF Multi Joint leg like structure.
Sommario/riassunto	This book presents a unique approach to the design and analysis of beneficial nonlinearity, which can take an important and critical role in engineering systems and thus cannot be simply ignored in structural design, dynamic response analysis, and parameter selection. A key issue in the area is thus systematically addressed about how to analyze and design potential nonlinearities introduced to or inherent in a system, which is a must-do task in many practical applications involving vibration control, energy harvesting, sensor systems and robots, etc. This book, therefore, presents an up-to-date summary on the most recent development of a cutting-edge method for nonlinearity

manipulation and employment developed in recent several years, known as the X-shaped structure or mechanism approach. The method is inspired from animal leg/limb skeletons and can provide passive low-cost high-efficiency adjustable and beneficial nonlinear stiffness (high static and ultra-low dynamic), nonlinear damping (dependent on resonant frequency and vibration excitation amplitude), and nonlinear inertia (low static and high dynamic) individually or simultaneously. The X-shaped structure or mechanism is a generic structure or mechanism representing a class of beneficial geometric nonlinearity with realizable and flexible linkage mechanism or structural design of different variants or forms (quadrilateral, diamond, polygon, K/Z/S/V/A/W-shape, or others) which all share similar geometric nonlinearity and thus similar nonlinear stiffness/damping properties, flexible in design, and easy to implement. This book systematically introduces the research background, motivation, essential bio-inspired ideas, advantages of this novel method, beneficial nonlinear properties in stiffness, damping and inertia, associated theory for analysis and design of nonlinear dynamics, potential applications and case studies, most of which have been developed ever since 2010. This is Part I of this book series, and the results in this book focus on beneficial nonlinear stiffness and damping characteristics of the fundamental X-shaped structure/mechanism and its variants, and provide an in-depth understanding of potential nonlinear properties that can be achieved through passive structural/mechanism designs via this class of X-structures or mechanisms.

2. Record Nr.	UNINA9910956901903321
Titolo	Burning darkness : a half century of Spanish cinema // edited by Joan Ramon Resina ; with the assistance of Andres Lema-Hincapie
Pubbl/distr/stampa	Albany, : SUNY Press, c2008
ISBN	9780791478059 079147805X 9781435663305 1435663306
Edizione	[1st ed.]
Descrizione fisica	1 online resource (320 p.)
Collana	SUNY series in Latin American and Iberian thought and culture
Altri autori (Persone)	ResinaJoan Ramon Lema-HincapieAndres
Disciplina	791.430946
Soggetti	Motion pictures - Spain - History Motion picture industry - Spain
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 (p. 277-293) and index.
Nota di contenuto	""7. Los parasos perdidos: Cinema of Return and Repetition (Basilio Martin Patino, 1985)""""8. (M)Othering Strategies in El pajarito de la felicidad (Pilar Mira, 1993)""; ""9. Abjection, Trauma, and the Material Image: La madre muerta (Juanma Bajo Ulloa, 1993)""; ""10. The Catalan Body Politic as Aired in La teta i la lluna (Bigas Luna, 1994)""; ""11. Genre and Screen Violence: Revisiting Tesis (Alejandro Amenabar, 1995)""; ""12. Conceptualizing the Impact in Los amantes del Carculo Polar (Julio Medem, 1998)"" ""13. Immortal/Undead: The Body and the Transmission of Tradition in Amic/Amat (Ventura Pons, 1998)""""14. Imitation of Life: Transsexuality and Transtextuality in Todo sobre mi madre (Pedro Almodovar, 1999)""; ""15. The Construction of the Cinematic Image: En construccion (Jose Luis Gueran, 2000)""; ""Works Cited""; ""Contributors""; ""Index""; ""A""; ""B""; ""C""; ""D""; ""E""; ""F""; ""G""; ""H""; ""I""; ""J""; ""K""; ""L""; ""M""; ""N""; ""O""; ""P""; ""Q""; ""R""; ""S""; ""T""; ""U""; ""V""; ""W""; ""Y""; ""Z""
Sommario/riassunto	Encourages a deep reading of a selection of essential Spanish films.