1. Record Nr. UNINA9910144585803321

Titolo	Adaptive structures [[electronic resource]] : engineering applications / / edited by David Wagg ... [et al.]
Pubbl/distr/stampa	Chichester, : John Wiley, c2007
ISBN	1-281-84035-1 9786611840358 0-470-51204-0 0-470-51206-7 1-60119-371-8
Descrizione fisica	1 online resource (315 p.)
Altri autori (Persone)	WaggDavid
Disciplina	624.1
Soggetti	Smart structures Smart materials Structural control (Engineering) Aerospace engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Based on the 2006 Colston Research Society Symposium on Adaptive Structures, University of Bristol, July 10-12th 2006.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Adaptive Structures; Contents; List of Contributors; Preface; 1 Adaptive Structures for Structural Health Monitoring; 1.1 Introduction; 1.2 Structural Health Monitoring; 1.3 Impedance-Based Health Monitoring; 1.4 Local Computing; 1.5 Power Analysis; 1.6 Experimental Validation; 1.7 Harvesting, Storage and Power Management; 1.7.1 Thermal Electric Harvesting; 1.7.2 Vibration Harvesting with Piezoceramics; 1.8 Autonomous Self-healing; 1.9 The Way Forward: Autonomic Structural Systems for Threat Mitigation; 1.10 Summary; Acknowledgements; References; 2 Distributed Sensing for Active Control 2.1 Introduction2.2 Description of Experimental Test Bed; 2.3 Disturbance Estimation; 2.3.1 Principal Component Analysis; 2.3.2 Application of PCA: Case Studies; 2.3.3 Combining Active Control and PCA to Identify Secondary Disturbances; 2.4 Sensor Selection; 2.4.1 Model Estimation; 2.4.2 Optimal Sensor Strategy; 2.4.3 Experimental

Demonstration; 2.5 Conclusions; Acknowledgments; References; 3 Global Vibration Control Through Local Feedback; 3.1 Introduction; 3.2 Centralised Control of Vibration; 3.3 Decentralised Control of Vibration 3.4 Control of Vibration on Structures with Distributed Excitation3.5 Local Control in the Inner Ear; 3.6 Conclusions; Acknowledgements; References; 4 Lightweight Shape-Adaptable Airfoils: A New Challenge for an Old Dream; 4.1 Introduction; 4.2 Otto Lilienthal and the Flying Machine as a Shape-Adaptable Structural System; 4.3 Sir George Cayley and the Task Separation Principle; 4.4 Being Lightweight: A Crucial Requirement; 4.5 Coupling Mechanism and Structure: Compliant Systems as the Basis of Lightweight Shape-Adaptable Systems; 4.5.1 The Science of Compliant Systems
4.5.2 Compliant Systems for Airfoil Shape Adaptation4.5.3 The Belt-Rib Airfoil Structure; 4.6 Extending Coupling to the Actuator System: Compliant Active Systems; 4.6.1 The Need for a Coupled Approach; 4.6.2 Solid-State Actuation for Solid-State Deformability; 4.6.3 Challenges and Trends of Structure-Actuator Integration; 4.7 A Powerful Distributed Actuator: Aerodynamics; 4.7.1 The Actuator Energy Balance; 4.7.2 Balancing Kinematics by Partially Recovering Energy from the Flow; 4.7.3 Active and Semi-Active Aeroelasticity; 4.8 The Common Denominator: Mechanical Coupling; 4.9 Concluding Remarks
AcknowledgementsReferences; 5 Adaptive Aeroelastic Structures; 5.1 Introduction; 5.2 Adaptive Internal Structures; 5.2.1 Moving Spars; 5.2.2 Rotating Spars; 5.3 Adaptive Stiffness Attachments; 5.4 Conclusions; 5.5 The Way Forward; Acknowledgements; References; 6 Adaptive Aerospace Structures with Smart Technologies - A Retrospective and Future View; 6.1 Introduction; 6.2 The Past Two Decades; 6.2.1 SHM; 6.2.2 Shape Control and Active Flow; 6.2.3 Damping of Vibration and Noise; 6.2.4 Smart Skins; 6.2.5 Systems; 6.3 Added Value to the System; 6.4 Potential for the Future
6.5 A Reflective Summary with Conclusions

Sommario/riassunto

Adaptive structures have the ability to adapt, evolve or change their properties or behaviour in response to the environment around them. The analysis and design of adaptive structures requires a highly multi-disciplinary approach which includes elements of structures, materials, dynamics, control, design and inspiration taken from biological systems. Development of adaptive structures has been taking place in a wide range of industrial applications, but is particularly advanced in the aerospace and space technology sector with morphing wings, deployable space structures; piezoelectric device

2. Record Nr. UNINA9910647782303321

Titolo	At some point there has to be peace and quiet! : Institutional struggle to working through the past of sexual violence and abuse of power at an institute for analytical child and adolescent psychotherapy / / by Peter Caspari, Helga Dill, Cornelia Caspari, Gerhard Hackenschmied
Pubbl/distr/stampa	Wiesbaden : , : Springer Fachmedien Wiesbaden : , : Imprint : Springer, , 2023
ISBN	3-658-39785-3
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (231 pages)
Disciplina	616.85227
Soggetti	Sociology Social groups Social psychology Deviant behavior Social control Sociology of Family, Youth and Aging Social Psychology Deviance and Social Control
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	The context -- The study -- Methodology -- Descriptive findings as a frame of reference -- Framework concepts for classifying the events -- (Sexual) boundary violations in psychotherapeutic relationships - an inventory -- Theoretical models - individual and institutional affectedness of sexualized violence -- Backgrounds and functionalities of a structural prevention.
Sommario/riassunto	The book provides - for the first time in the German-speaking world - a comprehensive scientific contribution to working through the past of sexual violence in a psychotherapy institute. The qualitative case study takes a look at decades of abuse of power and sexual violence by the director of an analytical institute for children and adolescents. It shows that the psychotherapists involved in this system do not live up to central ideas and concepts of their profession: Silence, denial,

rationalization, rejection of responsibility, and ignorance towards the victims have for a long time prevented the disclosure of the sexual boundary violations and sustainable forms of working through them. The life of the institute is characterized by a dialectical tension between the necessity of coping and the desire for undisturbed functioning. This dynamic also proves to be analogous to the problem-solving patterns of psychotherapeutic patients. Dr. phil. Peter Caspari is aresearch associate at the Institute for Practice Research and Project Consulting (IPP) and works as a consultant and therapist at the KIBS (Kinderschutz München e.V.) (Childprotection Munich) counselling center in Munich. Helga Dill is managing director of the Institute for Practice Research and Project Consulting (IPP) Munich. Dr. phil. Cornelia Caspari is a psychological psychotherapist in outpatient practice and in clinical practice in Munich and Ebersberg. Gerhard Hackenschmied is a research associate at the Institute for Practice Research and Project Consulting (IPP) in Munich. This book is a translation of an original German edition. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation.