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Titolo	Permit trading in different applications // edited by Bernd Hansjurgens, Ralf Antes and Marianne Strunz
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Altri autori (Persone)	AntesRalf HansjurgensBernd StrunzMarianne
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Nota di contenuto	Front Cover; Permit Trading in Different Applications; Copyright Page; Contents; List of figures and tables; List of contributors; Preface and acknowledgements; List of abbreviations; 1. Introduction: permit trading - a market-based instrument enters new fields of application: Bernd Hansjurgens and Ralf Antes; Part I: Emerging emissions trading schemes in air qualitymanagement and climate policy; 2. US emissions trading markets for SO2 and NOx: Dallas Burtraw and Sarah Jo Szambelan 3. The European emissions trading system for greenhouse gases: design, initial experience and review: Peter Zapfel4. A European perspective on recent trends in US climate policy: Ulf Moslener and Bodo Sturm; 5. SO2 trading pilot projects in China and their implications for a China-wide CO2 emissions trading system: Miriam Schroder; 6. Integrating Joint Implementation projects for energy

efficiency in the built environment with White Certificates in the Netherlands: Vlasis Oikonomou and Wytze van der Gaast; Part II: Permit trading in land use management and biodiversity

7. Transferable permits in spatial planning: US experiences and lessons for Germany: Christoph Schroter-Schlaack8. Applying tradable permits to biodiversity conservation: design issues, modelling and policies: Frank Watzold, Martin Drechsler, Florian Hartigand Silvia Wissel; 9. Possibilities to reduce tropical deforestation by carbon funding: general reflections and examples from Bolivia: Robert Muller; 10. The introduction of the Landfill Allowance Trading Scheme: permits in a public-sector environment: Glyn D. Jones; Part III: Water trading and water quality trading

11. Tradable permits - instruments to manage water scarcity? Some Australian experiences: Henning Bjørnlund12. California's water market: lessons from the field: Ellen Hanak; 13. Water quality trading: theoretical and practical approaches: Marianne Strunz; 14. Nutrient trading in the Chesapeake Bay watershed: opportunities and obstacles: Thomas W. Simpson; Part IV: Overarching design options and conclusions; 15. Collective liability in non-point source pollution: Mourad Ali and Patrick Rio

16. New modes of governance to tackle climate change: the case of the Clean Development Mechanism: Gudrun Benecke17. Permit trading in different applications: concluding observations: Bernd Hansjurgens; Index

Sommario/riassunto

"Permit trading is an environmental policy instrument that has received increasing levels of attention over recent years. Coming from the field of air quality management, with the European CO₂ emissions trading system being the most prominent example, it enters new fields of application, such as land use policy and biodiversity protection, water quality and water quantity trading. This book gives an overview of these recent developments and discusses the possibilities and limits of permit trading in environmental policies. The advantages of permit trading are not only seen with respect to economic efficiency, which leads to achieving the environmental target at minimum cost, but also with respect to the instrument's environmental effectiveness. By setting a cap for the overall emissions, a given environmental target can be met. This makes permit trading an interesting case for many environmental fields where safeguarding the environmental target plays a dominant role. Against this background, permit trading is discussed in environmental policy fields, where it has not been considered before, for example, land use management, biodiversity protection and water trading. Permit Trading in Different Applications analyses the properties of permit trading: its possibilities and limitations, its design options and its restrictions on a more general level. It demonstrates how lessons learnt in established policy fields like air quality management can be transferred to new and emerging fields of application. This collection will provide students and practitioners in environmental sciences and policy with valuable research into instrument choice and design with respect to permit trading"--

2. Record Nr.	UNINA9910830199703321
Autore	Elahinia Mohammad H.
Titolo	Shape memory alloy actuators : design, fabrication, and experimental evaluation / / Mohammad Elahinia, Department of Mechanical Engineering, University of Toledo, Toledo, OH, USA
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Nota di contenuto	Title Page; Table of Contents; List of Contributors; Preface; Acknowledgments; 1 Introduction; 1.1 Shape memory alloys; 1.2 Metallurgy of NiTi; 1.3 Thermomechanical Behaviors; 1.4 Actuation; 1.5 Modeling and Simulation; 1.6 Summary; References; 2 Mathematical Modeling and Simulation; 2.1 Phenomenological Macroscale Modeling; 2.2 Micromechanical Modeling; 2.3 Summary; References; 3 SMA Actuation Mechanisms; 3.1 Bias-Type Actuators; 3.2 Antagonistic SM-SM Actuation; 3.3 SM Spring Actuation; 3.4 Superelastic Actuation; 3.5 Multiaxial Actuation; 3.6 Antagonistic SM-Superelastic Actuation 3.7 SummaryReferences; 4 Control of SMA Actuators; 4.1 Introduction to Sliding Mode Control; 4.2 Sliding Mode Control of SMA Actuators without Modeling; 4.3 Model-Based Sliding Control of SMA Actuators; 4.4 Model-Based Backstepping Control of SMA Actuators; 4.5 Summary; References; 5 Fatigue of Shape Memory Alloys; 5.1 Fatigue of Metals; 5.2 Fatigue of SMAs; 5.3 Microstructural Effects; 5.4 Treatment and Postprocessing Effects; 5.5 Other Influential Parameters; 5.6 Examples; References; 6 Fabricating NiTi SMA Components; 6.1 Melting and Casting; 6.2 Hot Working, Cold Working, and Forming 6.3 Machining and Cutting (Subtractive Manufacturing)6.4 Joining; 6.5 Powder Metallurgy; 6.6 Thin Film and Thick Film Technologies; 6.7 Heat

Treatments and Shape Setting; 6.8 Finishing and Surface Modification; References; 7 Experimental Characterization of Shape Memory Alloys; 7.1 Introduction; 7.2 Characterization of Physical Properties; 7.3 Mechanical Characterization; 7.4 Microstructural Analysis; 7.5 Summary; References; Index; End User License Agreement

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Autore	Widimsky J
Titolo	Pulmonary Blood Vessels in Lung Disease : : International Symposium on Pulmonary Circulation 5, Prague, July 1989 // editors, J. Widimsky, J. Herget
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