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Autore	Gans, Eduard
Titolo	Il Diritto romano delle obbligazioni e specialmente intorno alla teorica dei contratti innominati e dello 'jus poenitendi' : tre dissertazioni di Diritto civile / Eduard Gans ; traduzione dal tedesco di Eduardo Salvetti
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2. Record Nr.	UNINA9910299757903321
Autore	Xin Xin
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Soggetti	Robots - Control systems Robotics
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamental Background -- Directly Driven Acrobat -- Remotely Driven Acrobat -- Pendubot -- Rotational Pendulum -- Counter-Weighted Acrobat -- Variable Length Pendulum -- 2-Link Underactuated Robot with Flexible Elbow Joint -- 3-Link Planar Robot with Passive First Joint -- n-Link Planar Robot with Passive First Joint -- n-Link Planar Robot with Single Passive Joint -- Two Parallel Pendulums on a Cart -- Double Pendulum on a Cart -- 3-Link Planar Robot with Two Passive Joints -- 2-Link Flying Robot.
Sommario/riassunto	The last two decades have witnessed considerable progress in the study of underactuated robotic systems (URSs). Control Design and Analysis for Underactuated Robotic Systems presents a unified treatment of control design and analysis for a class of URSs, which include systems with multiple-degree-of-freedom and/or with underactuation degree two. It presents novel notions, features, design techniques, and strictly global motion analysis results for these systems. These new materials are shown to be vital in studying the control design and stability analysis of URSs. Control Design and Analysis for Underactuated Robotic Systems includes the modelling, control design, and analysis presented in a systematic way particularly

for the following examples: I directly and remotely driven Acrobots I Pendubot I rotational pendulum I counter-weighted Acrobot 2-link underactuated robot with flexible elbow joint I variable-length pendulum I 3-link gymnastic robot with passive first joint I n-link planar robot with passive first joint I n-link planar robot with passive single joint double, or two parallel pendulums on a cart I 3-link planar robots with underactuation degree two 2-link free flying robot The theoretical developments are validated by experimental results for the remotely driven Acrobot and the rotational pendulum. Control Design and Analysis for Underactuated Robotic Systems is intended for advanced undergraduate and graduate students, and researchers in the area of control systems, mechanical and robotics systems, nonlinear systems and oscillation. This text will not only enable the reader to gain a better understanding of the power and fundamental limitations of linear and nonlinear control theory for the control design and analysis for these URSSs, but also inspire the reader to address the challenges of more complex URSSs.
