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Autore	VECCHI, Orazio
Titolo	Selva di varia ricreazione / Orazio Vecchi (Modena, 1550-1605) ; a cura di/edited by Giovanni Torre
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Autore	Long Zhiqiang
Titolo	High-Speed Maglev Train’s Levitation and Guidance Control : The Key Technologies / / by Zhiqiang Long, Zhiqiang Wang, Mingda Zhai, Xiaolong Li
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Collana	Advances in High-speed Rail Technology, , 2363-5029
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Technology analysis of EMS high-speed maglev system -- Controller design of high-speed maglev train levitation system -- Controller design of high-speed maglev train guidance system -- Performance evaluation of levitation control system -- Performance evaluation of guidance control system -- Control Technology of High-Speed PEM Hybrid Levitation System -- Fault Diagnosis of High-Speed PEM Hybrid Levitation System -- Fault Tolerant Control of High-Speed PEM Hybrid Levitation System.
Sommario/riassunto	This book highlights the system modeling, control, diagnosis and fault-tolerant design of the suspension, and guidance system of the high-speed maglev train based on electromagnetic suspension technology. The electromagnetic suspension technology has been widely used in real-life engineering, including maglev trains, magnetic bearings, magnetic levitation vibration isolators, magnetic suspension and balance systems for wind tunnels, etc. Based on the academic

researches, engineering applications, and technical innovations of high-speed maglev trains carried out by the maglev team of the National University of Defense Technology, this book summarizes the technical achievements in the field of levitation and guidance control technology of high-speed maglev train. It analyzes the research status and challenges of the suspension control technology of the electromagnetic suspension maglev train. The suspension, guidance system modeling, and controller design of the high-speed maglev train are described in detail. The performance index and performance evaluation method of the levitation and guidance system under various working conditions are analyzed respectively. A suspension scheme of permanent magnet electromagnetic hybrid suspension high-speed maglev train is proposed, and the results of the vehicle test are given in order to further improve the suspension energy consumption and heating of electromagnetic suspension high-speed maglev train. The suspension and guidance fault diagnosis and tolerant control methods of the high-speed maglev train are studied to improve the system's safety and reliability. The research and application results of suspension control technology of electromagnetic suspension maglev train are fully displayed for readers. This book is intended for researchers, scientists, engineers, and graduate students involved in the rail transit industry, train control and diagnosis, and maglev technology.