

1. Record Nr.	UNINA9910796610203321
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Titolo	High temperature superconducting magnetic levitation // Jia-Su Wang and Su-Yu Wang
Pubbl/distr/stampa	Berlin, [Germany] ; ; Boston, [Massachusetts] : , : De Gruyter, , 2018 ©2018
ISBN	3-11-053836-9
Descrizione fisica	1 online resource (402 pages)
Classificazione	UP 2280
Disciplina	621.34
Soggetti	Superconducting magnets
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Frontmatter -- Contents -- Preface -- 1. Fundamentals of superconductivity / Wang, Jia-Su / Wang, Su-Yu -- 2. Superconducting materials / Wang, Jia-Su / Wang, Su-Yu -- 3. Magnetic levitation / Wang, Jia-Su / Wang, Su-Yu -- 4. Superconducting magnetic levitation / Wang, Jia-Su / Wang, Su-Yu -- 5. HTS Maglev experimental methods and set-up / Wang, Su-Yu / Wang, Jia-Su / Lu, Yi-Yun / Liu, Wei -- 6. First manned HTS Maglev vehicle in the world / Wang, Jia-Su / Wang, Su-Yu -- 7. Numerical simulations of HTS Maglev / Ma, Guang-Tong / Lu, Yi-Yun -- 8. New progress of HTS Maglev vehicle / Zheng, Jun / Deng, Zi-Gang / Wang, Jia-Su / Wang, Su-Yu -- 9. HTS Maglev bearing and flywheel energy storage system / Deng, Zi-Gang / Lin, Qun-Xu / Liu, Wei / Wang, Jia-Su / Wang, Su-Yu -- 10. HTS Maglev launch technology / Liu, Wei / Li, Jing / Wang, Jia-Su / Wang, Su-Yu -- Acronyms and abbreviations
Sommario/riassunto	The authors begin this book with a systematic overview of superconductivity, superconducting materials, magnetic levitation, and superconducting magnetic levitation - the prerequisites to understand the latter part of the book - that forms a solid foundation for further study in High Temperature Superconducting Magnetic Levitation (HTS Maglev). This book presents our research progress on HTS Maglev at Applied Superconductivity Laboratory (ASCLab) of Southwest Jiaotong University (SWJTU), China, with an emphasis on the findings that led to the world's first manned HTS Maglev test vehicle "Century". The book

provides a detailed description on our previous work at ASCLab including the designing of the HTS Maglev test and measurement method as well as the apparatus, building "Century", developing the HTS Maglev numerical simulation system, and making new progress on HTS Maglev. The final parts of this book discuss research and prototyping efforts at ASCLab in several adjacent fields including HTS Maglev bearing, Flywheel Energy Storage System (FESS) and HTS maglev launch technology. We hope this book becomes a valuable source for researchers and engineers working in the fascinating field of HTS Maglev science and engineering. Contents

Fundamentals of superconductivity
Superconducting materials
Magnetic levitation
Superconducting magnetic levitation
HTS Maglev experimental methods and set-up
First manned HTS Maglev vehicle in the world
Numerical simulations of HTS Maglev
New progress of HTS Maglev vehicle
HTS Maglev bearing and flywheel energy storage system
HTS Maglev launch technology
