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Nota di contenuto	<p>Introduction -- Part I Conceptualising STEM education in Asia -- 1 Identifying Effective STEM Programmes and Strategies in Asia -- 2 Interdisciplinary, Integrated, and Transdisciplinary Approaches to Science and Technology Education: When, for Whom, and How? -- 3 Arts Integrated STEM in Korea -- 4 The Status Study of the Researches & Practices on STEM Education Towards Society 5.0 in Japan -- 5 The Consumption and Production of STEM Education in Singapore -- Part II Implementing STEM Education at Different Education Levels in Asia -- 6 Fostering STEM Education for Early Childhood in Thailand -- 7 Innovative Flat Speaker STEM Curriculum for Enhancing Students' Engineering Design and Their Attitudes towards STEM -- 8 Online Real-time Experiments for Enhancing Learning of Interdisciplinary and Disciplinary STEM Subjects at the Secondary Level -- 9 Enhancing STEM Education in Malaysia Through Scientist-teacher-student Partnership (STSP) -- 10 Revitalizing STEM Education in Rural Secondary Schools through Mentor-Mentee Outreach Program -- 11 Student Research Tasks on STEM/STEAM and its Educational Effects in Korea -- Part III Preparing teachers for STEM teaching -- 12 Toward STEM Education in Pre-service Math-Science Teacher Program in Indonesia: A Challenging Journey -- 13 Teacher Training and Preparation for STEM Teaching: Challenge and Recommendation -- Epilogue: Way forward for STEM Education in Asia.</p>
Sommario/riassunto	<p>The purpose of this edited book is to enrich the literature related to STEM education at kindergarten, primary and secondary levels in Asia, with particular attention given to the analysis of the educational context in a number of Asian countries, including STEM-related policies, pedagogical practices, and the design and evaluation of STEM programmes. The discussions look into impacts on student learning outcomes and the ways in which STEM education is catering for schools and students' interests and needs. The contributors are experts in STEM education or are leading major research and development projects in STEM in their regions. The book's first section is focused at the macro-level on the conceptualization and formulation of STEM education policies in different regions, contributing to our understanding of the current status of STEM education in Asia. The second section examines some features of STEM learning and teaching at the classroom level and includes studies on student learning in STEM programmes. Pedagogical innovations implemented in different parts of Asia are also reported and discussed. The third section moves to teacher education and teacher professional development. It discusses practices of teacher professional development in the region and reports on current provisions as well as challenges. Together, the contributions from different Asian regions invite researchers and educators to learn from effective STEM practices, and point out areas for further development. Chapters "An Overview of STEM Education in Asia" and "STEM Teacher Professional Development for Primary School Teachers in Hong Kong" are available open access under a CC BY 4.0 license at link.springer.com.</p>