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Nota di contenuto	Cyber-Physical Systems Design -- Cyber-Physical Systems in Chemical industry -- Cyber-Physical Systems for New Materials Design -- Cyber-physical systems and Industrial applications in Energetics -- Engineering Education for Cyber-Physical Systems Design.
Sommario/riassunto	This book consists of chapters dedicated to the questions of cyber-physical system design and its usage for the chemical industry and new material design. Also, the contribution of the book covers scientific research and their results for cyber-physical systems design and application in the energy domain and solutions regarding engineering education for cyber-physical systems design. The book offers unique content for researchers and practitioners who are looking for new knowledge and skills in the framework of Industry 4.0 solutions. The book also benefits researchers and practitioners in chemistry and new material design and manufacturing to understand how cyber-physical systems can be applied to increase efficiency and performance. The target audience of the book are practitioners, enterprises representatives, scientists, Ph.D. and master students who perform

scientific research or applications of cyber-physical systems in the concept of Industry 4.0. .