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Titolo	Flow chemistry . Volume 1 : fundamentals / / edited by Ferenc Darvas [and three others]
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Descrizione fisica	1 online resource (448 pages)
Collana	De Gruyter Textbook
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Nota di contenuto	Frontmatter -- Preface -- Acknowledgments -- Contents -- About the editors -- Contributing authors -- 1 Fundamentals of flow chemistry -- 2 Principles of controlling reactions in flow microreactor chemistry -- 3 Technology overview/overview of the devices -- 4 Practical aspects of performing continuous flow chemistry -- 5 When and how to start flow chemistry -- 6 Fundamentals of continuous manufacturing PAT: sampling, analysis, and automation -- 7 Continuous gas–liquid and liquid–liquid separation -- 8 Mitigation of chemical hazards under continuous flow conditions -- 9 Diazo(diphenyl)methane synthesis in continuous flow: an experiment for the undergraduate teaching laboratory -- 10 Continuous flow catalysis -- 11 Gaseous reagents in flow chemistry -- Answers to the study questions -- Index
Sommario/riassunto	The fully up-dated edition of the two-volume work covers both the theoretical foundation as well as the practical aspects. Presenting the complete insight into driving a chemical reaction provides a deep understanding for new potential technologies. Updated overview on devices and new key concepts of experimental procedures. Vol. 2: Applications.