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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to microflows -- Gaseous microflows -- Liquid microflows : particularities and modeling -- Physiological microflows -- Single-phase heat transfer -- Two-phase microflows -- Experimental methods -- Fluidic microsystems -- Microsystems in macroflows active control.
Sommario/riassunto	The goal of this book is to provide engineers and researchers the tools necessary for modelling, experimenting, and simulating these microflows as a preliminary step for designing and optimizing fluidic microsystems. The various consequences of miniaturization on the hydrodynamics of gas, liquid or two-phase flows, as well as associated heat transfer are analysed. The book is illustrated with examples showing the diversity and the originality of fluidic microsystems.