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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- MODELLING SUBCOOLED BOILING FLOWS -- NOTICE TO THE READER -- CONTENTS -- PREFACE -- NOMENCLATURE -- GREEK LETTERS -- SUBSCRIPTS -- INTRODUCTION -- CONSERVATION EQUATIONS FOR THE TWO-FLUID BOILING MODEL -- NUMERICAL METHODS FOR SUBCOOLED BOILING FLOW -- BASIC ASPECTS OF DISCRETISATION - FINITE VOLUME METHOD -- ASSEMBLY OF DISCRETISED EQUATIONS -- SOLUTION ALGORITHMS -- APPLICATION OF EMPIRICAL RELATIONSHIPS TO MODELING SUBCOOLED BOILING FLOW -- MECHANISTIC MODELS AND CLOSURE THROUGH VARIOUS EMPIRICAL RELATIONSHIPS -- MODEL APPLICATIONS -- PHENOMENOLOGICAL OBSERVATIONS AND POPULATION BALANCE MODEL -- POPULATION BALANCE APPROACH BASED ON THE CLASS METHOD -- IMPROVEMENTS TO WALL HEAT FLUX PARTITIONING MODEL -- WALL HEAT FLUX PARTITIONING MODEL INCORPORATING BUBBLE SLIDING -- FORCE BALANCE MODEL FOR BUBBLE DEPARTURE AND BUBBLE LIFT-OFF -- MODEL PREDICTIONS -- SUMMARY -- REFERENCES -- INDEX.
Sommario/riassunto	In the context of computational fluid dynamics (CFD), modelling low-pressure subcooled boiling flow is of particular significance. A review is provided in this book of the various numerical modelling approaches that have been adopted to handle subcooled boiling flow.