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| 1. Record Nr. | UNINA9910855300403321 |
| Autore | Cooke, Josiah Parsons <1827-1894> |
| Titolo | Principles of chemical philosophy / by Josiah P. Cooke |
| Pubbl/distr/stampa | Boston, : John Allyn, Publisher, 1872 |
| Edizione | [2nd. ed., revised and corrected] |
| Descrizione fisica | viii, 576, xii p. : ill. ; 20 cm |
| Disciplina | 540 |
| Locazione | NAP14 |
| Collocazione | G 6 III 14 |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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| 2. Record Nr. | UNINA9910966672003321 |
| Autore | Yeoh Guan Heng |
| Titolo | Modelling subcooled boiling flows / / G. H. Yeoh and J. Y. Tu |
| Pubbl/distr/stampa | New York, : Nova Science Publishers, c2009 |
| ISBN | 1-60876-420-6 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (100 p.) |
| Altri autori (Persone) | TuJiyuan |
| Disciplina | 621.402/2015118 |
| Soggetti | Fluid dynamics
Heat - Transmission - Mathematical models |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| 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.
