Record Nr. UNINA9910138979603321 Autore Anselmet Fabien Titolo Turbulent multiphase flows with heat and mass transfer / / authors Fabien Anselmet, Roland Borghi Pubbl/distr/stampa London, England;; Hoboken, New Jersey:,: ISTE Ltd:,: John Wiley & Sons, , 2014 ©2014 **ISBN** 1-118-79019-7 1-118-79005-7 1-118-79007-3 Descrizione fisica 1 online resource (469 p.) Collana **ISTE** Altri autori (Persone) BorghiRoland Disciplina 620.1064 Soggetti Multiphase flow Heat - Transmission Mass transfer 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 Cover; Title page; Table of Contents; Acknowledgments; Introduction; PART 1. APPROACH AND GENERAL EQUATIONS; Chapter 1. Towards a Unified Description of Multiphase Flows; 1.1. Continuous approach and kinetic approach; 1.2. Eulerian-Lagrangian and Eulerian formulations; Chapter 2. Instant Equations for a Piecewise Continuous Medium; 2.1. Integral and differential forms of balance equations; 2.2. Phase mass balance equations in a piecewise continuous medium; 2.3. Momentum balances; 2.4. Energy balances; 2.5. Position and interface area balance equations 2.6. Extension for a fluid phase that is a mixture 2.7. Completing the description of the medium; Chapter 3. Description of a ""Mean Multiphase Medium""; 3.1. The need for a mean description; 3.2. How are mean values defined?; 3.2.1. Temporal average; 3.2.2. Volumetric average; 3.2.3. Statistical average; 3.2.4. Filtered average; 3.3. Which

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