Record Nr. UNINA9910779507903321 Fluid transport [[electronic resource]]: theory, dynamics and **Titolo** applications / / Emma T. Berg, editor Pubbl/distr/stampa New York,: Nova Science Publishers, c2011 **ISBN** 1-61122-676-7 Descrizione fisica 1 online resource (281 p.) Collana Engineering tools, techniques and tables Physics research and technology series Altri autori (Persone) BergEmma T Disciplina 532 Fluid dynamics Soggetti Transport theory 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. ""FLUID TRANSPORT: THEORY, DYNAMICS AND APPLICATIONS "": Nota di contenuto ""FLUID TRANSPORT: THEORY, DYNAMICS AND APPLICATIONS ""; ""CONTENTS""; ""PREFACE ""; ""FLUIDODYNAMICS CHARACTERISTICS OF A VERTICAL GAS-SOLID AND LIQUID-SOLID FLOW ""; ""ABSTRACT ""; ""1. INTRODUCTION ""; ""2. THEORETICAL BACKGROUND ""; ""2.1. Background of Hydrodynamic Models ""; ""2.2. A Study of the Models Parameters "": ""2.2.1. Fluid-particle interphase drag coefficient ""; ""2.2.2. Fluid-wall and particle-wall friction ""; ""3. TRANSPORT MODELING ""; ""3.1. Fluidodinamics Model of Vertical Two-Phase Flow "" ""3.1.1. Loading ratio of flow """"4. APPLYING THE MODEL ""; ""4.1. Model Calculations ""; ""4.2. Applying the Model to Determination of Solids Wall Friction Coefficient ""; ""4.3. Fluidodynamics Characteristics of a Vertical Gas-Solid Flow ""; ""4.3.1. Flow regimes in vertical gasa€? solids flow ""; ""4.3.2. Model and model parameters ""; ""4.3.3. Applying the model to predict the basic fluidodynamics parameters of the vertical gas-solids flow ""; ""4.3.3.1. Prediction solids flowrate in the transport tube "": ""4.3.3.2. Prediction of the pressure gradient in the transport tube "" ""4.3.3.3. Indirect determination of solids-wall friction coefficient """"4.4. Fluidodynamics Characteristics of a Vertical Liquid-Solid Flow

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