Record Nr. UNINA9910784614603321 Handbook of pumps and pumping [[electronic resource] /] / edited by **Titolo Brian Nesbitt** Pubbl/distr/stampa Oxford;; Burlington, MA,: Elsevier in association with Roles & Associates Ltd., 2006 **ISBN** 1-281-07712-7 9786611077129 0-08-087831-8 0-08-054921-7 Edizione [1st ed.] Descrizione fisica 1 online resource (499 p.) Altri autori (Persone) NesbittBrian 621.6/9 Disciplina Soggetti Pumping machinery Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover; Handbook of Pumps and Pumping; Copyright Page; Contents; Chapter 1. Pump types; 1.1 Introduction; 1.2 Checklist of pump terminology and definitions; 1.3 Rotodynamic pumps; 1.4 Special rotodynamic pumps; 1.5 Positive displacement pumps; 1.6 Other pump types; 1.7 Useful references; Chapter 2. Properties of liquids; 2.1 Explanation of terms; 2.2 Water; 2.3 Oils; 2.4 Liquid-solid mixtures; 2.5 Liquid-gas mixtures; 2.6 Table of liquid properties; 2.7 Useful references; Chapter 3. Flow of liquids; 3.1 Fundamental equations; 3.2 Pipe flow losses: 3.3 Liquid-solid mixtures 3.4 Pressure losses - nomograms and diagrams 3.5 Flow measurement; 3.6 Useful references; Chapter 4. Pump theory; 4.1 Introduction; 4.2 Rotodynamic pumps: 4.3 Positive displacement pumps: 4.4 Suction performance; 4.5 Useful references; Chapter 5. Pumps and piping systems; 5.1 System curves; 5.2 Pressure drop across valves; 5.3 Multiple pump systems: 5.4 Pump hydraulic data: 5.5 Water hammer: 5.6 Pressure pulsations; 5.7 Useful references; Chapter 6. Flow regulation and control; 6.1 Introduction; 6.2 Variable flow requirements; 6.3 Flow regulation; 6.4 On-off control of constant speed pump 6.5 Pole-changing induction motors6.6 Multi-speed gearboxes; 6.7

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Sommario/riassunto

Written by an experienced engineer, this book contains practical information on all aspects of pumps including classifications, materials, seals, installation, commissioning and maintenance. In addition you will find essential information on units, manufacturers and suppliers worldwide, providing a unique reference for your desk, R&D lab, maintenance shop or library.* Includes maintenance techniques, helping you get the optimal performance out of your pump and reducing maintenance costs * Will help you to understand seals, couplings and ancillary equipment, ensuring systems are set