1. Record Nr. UNINA9911004797403321 Autore Smith Peter <1951 June 7-> Titolo Piping materials: selection and applications // by Peter Smith Amsterdam;; Boston,: Elsevier, c2005 Pubbl/distr/stampa **ISBN** 9780080580022 9786611009748 9781281009746 1281009741 9780080480022 0080480020 Edizione [1st ed.] Descrizione fisica 1 online resource (356 p.) Disciplina 621.8/672 Soggetti Pipe - Materials Metal-work Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di contenuto COVER: CONTENTS: PREFACE: 1. THE PIPING MATERIAL ENGINEER: 1. WHAT IS A PIPING MATERIAL ENGINEER?; 2. PIPING MATERIAL ENGINEER'S ACTIVITIES; 2. PROCESS INDUSTRY CODES AND STANDARDS; 1. INTRODUCTION; 2. AMERICAN PETROLEUM INSTITUTE; 3. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME); 4. AMERICAN SOCIETY FOR TESTING AND MATERIALS; 5. AMERICAN WELDING SOCIETY: 6. AMERICAN WATER WORKS ASSOCIATION: 7. MANUFACTURERS STANDARDIZATION SOCIETY: 8. NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE); 9. SOCIETY OF AUTOMOTIVE ENGINEERS; 3. MATERIALS; 1. INTRODUCTION 3; 2. MATERIALS SPECIFICATIONS 4. PIPING COMPONENTS1. INTRODUCTION 4; 2. DIMENSIONAL

STANDARDS OF PIPE; 3. DIMENSIONAL STANDARDS FOR PIPING COMPONENTS; 4. THE MANUFACTURE OF ELECTRIC RESISTANCE

WELDED PIPE; 5. THE BASIC MANUFACTURE OF SEAMLESS PIPE; 6. STEEL PIPE (SEAMLESS AND WELDED), DIMENSIONS AND WEIGHT; 7. STAINLESS STEEL PIPE (SEAMLESS AND WELDED), DIMENSIONS AND WEIGHT; 5. JOINTS FOR PROCESS PIPING SYSTEMS; 1. INTRODUCTION TO PIPE

JOINTS: 2. FUNDAMENTAL PRINCIPLES: 3. WELDED JOINTS: 4. WELDING TECHNIQUES: 5. HEAT TREATMENT: 6. NONDESTRUCTIVE EXAMINATION OF WELDS: 7. INSPECTION LEVELS: 8. INSPECTION RECORDS 9. METALLIC FLANGED JOINTS10. WELD-NECK FLANGE; 11. SOCKET-WELD FLANGE; 12. SCREWED FLANGES; 13. SLIP-ON FLANGES; 14. LAP-JOINT FLANGES: 15. JOINT COMPARISON: 6. BOLTS AND GASKETS: 1. BOLTS: 2. GASKETS: 3. BOLTS AND GASKETS: 7. VALVES: 1. RESPONSIBILITY FOR VALVE SELECTION; 2. VALVE DATA SHEETS; 3. THE FUNCTION OF A VALVE: 4. MATERIALS OF CONSTRUCTION: 5. ACCEPTABLE ALTERNATIVES; 6. INSPECTION AND TESTING; 7. CERTIFICATION; 8. BASIC MATERIALS OF CONSTRUCTION; 9. TYPICAL GENERAL ARRANGEMENTS OF VALVES; 8. GLOSSARIES AND ABBREVIATIONS: 1. STEEL GLOSSARY: 2. WELDING GLOSSARY 3. REFINERY GLOSSARY4. PIPING ABBREVIATIONS; 5. ELASTOMER AND POLYMER GLOSSARY: 6. ABBREVIATIONS: 7. LIST OF COMMERCIALLY AVAILABLE NONMETALLIC MATERIALS: INDEX

Sommario/riassunto

The only book of its kind on the market, this book is the companion to our Valve Selection Handbook, by the same author. Together, these two books form the most comprehensive work on piping and valves ever written for the process industries. This book covers the entire piping process, including the selection of piping materials according to the job, the application of the materials and fitting, trouble-shooting techniques for corrosion control, inspections for OSHA regulations, and even the warehousing, distributing, and ordering of materials. There are books on materials, fitting, OSHA reg