1. Record Nr. UNINA9910583485103321 Autore Wright Roger N. Titolo Wire technology: process engineering and metallurgy / / by Roger N. Wright Amsterdam, [Netherlands]:,: Butterworth-Heinemann,, 2016 Pubbl/distr/stampa ©2016 **ISBN** 0-12-802678-2 Edizione [2nd ed.] Descrizione fisica 1 online resource (342 p.) Disciplina 621.3193 Soggetti Wiredrawing 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. Front Cover: WIRE TECHNOLOGY: Process Engineering and Metallurgy: Nota di contenuto Copyright; Dedication; Contents; Preface; About the Author; Chapter 1: The General Idea; 1.1. Concepts; 1.1.1. Drawing; 1.1.2. Wire, Rod, and Bar; 1.1.3. Materials; 1.2. How Does Drawing Work?; 1.2.1. Why Not Simply Stretch the Wire, Rod, or Bar?; 1.2.2. A Simple Explanation of the Drawing Process; 1.2.3. Comparison to Other Processes; 1.2.4. Overall Process Hardware; 1.3. Questions and Problems; Chapter 2: A Brief History of Technology; 2.1. Ancient and Early Technology; 2.2. The Nineteenth Century; 2.3. The Twentieth Century 2.4. Further Reading 2.5. Questions and Problems: Chapter 3: Twentieth Century Equipment Concepts; 3.1. Overview; 3.2. Benches; 3.3. Blocks; 3.4. Multiple-die Machines; 3.5. Other In-line Processes; 3.6. Post-Twentieth Century Developments; 3.7. Questions and Problems; Chapter 4: Basic Engineering Variables Pertinent to Drawing; 4.1. General Quantities; 4.1.1. Dimensions; 4.1.2. Force; 4.1.3. Work and Energy: 4.1.4. Power: 4.1.5. Stress: 4.1.6. Strain: 4.1.7. Strain Rate: 4.1.8. Relations Between Stress and Strain; 4.1.9. Temperature 4.2. Quantities Describing the Workpiece and Die During Drawing4.2.1. Overview; 4.2.2. Cross-Sectional Areas and the Reduction; 4.2.3. Die Angle; 4.2.4. Deformation Zone Shape and; 4.2.5. Drawing Stress and

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