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 METALLURGY I: Pyrometallurgy. 2.1 Mineral Dressing (Mineral
 Beneficiation).; 2.2 Chemistry as a Precursor to Extractive Metallurgy.;
 2.3 Basics of Pyrometallurgy; 2.4 Ironmaking.
 2.5 Steelmaking.2.6 Alloy Steels; 2.7 Copper; 2.8 Nickel; 2.9 Titanium;
 2.10 Tin: 2.11 Lead: 2.12 Zinc.; 2.13 Platinum Group Precious Metals.;
 References. Further Reading; CHAPTER 3. EXTRACTIVE METALLURGY.
 Electro- and Hydro-Metallurgy. 3.1 Electrometallurgical Extraction of
 Metals; 3.2 Hydrometallurgical Extraction of Metals.; 3.3 Some Recent
 Developments; 3.4 Summary of the Historical Aspects of
 Hydrometallurgy : References; Further Reading; CHAPTER 4. PHYSICAL
 METALLURGY I: Structure of Metals and Alloys.; 4.1 Macrostructure.; 4.2
 Microstructure and its Examination; 4.3 Crystal Structure
 4.4 Nanostructure4.5 Electronic Structure and Periodic Table; 4.6
 Electronic Models for Transition Metals; 4.7 Bonding in Metal-like
 Refractory Compounds; 4.8 Structure of Liquid Metals; References;
 Further Reading; CHAPTER 5. PHYSICAL METALLURGY II: Phase
 Equilibria, Diffusion, Defects and Properties. 5.1 Phase Equilibria; 5.2
 Alloy Formation and Stability; 5.3 Diffusion; 5.4 Defects in Crystals and
 Deformation; 5.5 Mechanical Properties; 5.6 Physical Properties;
 References; Further Reading
 CHAPTER 6. PHYSICAL METALLURGY III: Phase Transformation,
 Recrystallization and Grain Growth. 6.1 Liquid to Solid
 Transformation6.2 Solid to Solid Transformation; 6.3 Precipitation and
 Precipitation Hardening; 6.4 Recrystallization and Grain Growth; 6.5
 Thermomechanical Treatment of Alloys (TMT); References; Further
 Reading; CHAPTER 7 FUTURE TRENDS.; 7.1 Extractive Metallurgy; 7.2
 Physical Metallurgy; 7.3 Computer Simulation; 7.4 Metals in Biosystems;
 7.5 Future of Untapped Minerals and World Economy: 7.6 A Way
 towards Molecular Science; References; Further Reading
 Famous Metal Scientists in Pictorial

Sommario/riassunto

Metals, because of their inherent properties, have been in service to mankind from the Early Periods. Metal craft started turning into metal science in the 19th Century and got matured in 20th century. The present book, to the best of author's memory, is the first attempt to present the history of metal science in one volume, covering both extractive and physical metallurgy. The book is aimed as a supplementary text book for students in metallurgy and materials science and also selectively for general readers. After a brief introduction (Chapter 1), the second and third chapters are devoted to

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Sommario/riassunto	¿Por qué hay tan pocas mujeres científicas, ingenieras, expertas o líderes en las tecnologías de la información, cuando al mismo tiempo tenemos más mujeres que hombres con estudios universitarios? Esta cuestión plantea un problema de equidad y de eficiencia. Por una parte, se trata de una situación socialmente injusta, porque priva a las mujeres de empleos muy creativos y mejor remunerados; por otra parte, también es negativo desde el punto de vista del crecimiento económico y del bienestar social, al no aprovecharse el talento y la creatividad femeninos. Este desequilibrio no es un fenómeno aislado, sino muy extendido a nivel europeo e internacional, por lo que podemos considerarlo como un rasgo estructural de la desigualdad de género. De forma rigurosa y accesible, la complejidad de la relación entre mujeres, ciencia y tecnología se aborda en este libro desde la perspectiva de género y a partir de los resultados de distintos proyectos de investigación y del Programa Género y TIC del Internet Interdisciplinary Institute (IN3) de la Universitat Oberta de Catalunya (UOC). Podrán encontrar todos los estudios e investigaciones realizados por las autoras en el Blog www.gender-ict.net .