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Extractive Metallurgy 1 Extractive Metallurgy 1 Basic Thermodynamics and Kinetics Alain Vignes First published 2011 2,060 1,430 12MB Read more This document does not claim any originality and cannot be used as a substitute for prescribed textbooks. The information presented here is merely a collection by the author for their respective teaching assignments as an additional tool for the teaching-learning process. Various sources as mentioned at the reference of the document as well as freely available material from internet were consulted for preparing this document. The ownership of the information lies with the respective author or institutions. Further, this document is not intended to be used for commercial purpose and the faculty is not accountable for any issues, legal or otherwise, arising out of use of this document. The committee faculty members make no representations or warranties with respect to the accuracy or completeness of the contents of this document and specifically disclaim any implied warranties of merchantability or fitness for a particular purpose.The Book Attempts To Present A Comprehensive View Of Extractive Metallurgy, Especially Principles Of Extractive Metallurgy In A Concise Form. This Is The First Book In This Area Which Attempts To Do It. It Has Been Written In Textbook Style. It Presents The Various Concepts Step By Step, Shows Their Importance, Deals With Elementary Quantitative Formulations, And Illustrates Through Quantitative And Qualitative Informations. The Approach Is Such That Even Undergraduate Students Would Be Able To Follow The Topics Without Much Difficulty And Without Much Of A Background In Specialized Subjects. This Is Considered To Be A Very Useful Approach In This Area Of Technology. Moreover The Inter-Disciplinary Nature Of The Subject Has Been Duely Brought Out.While Teaching Concerned Course(S) In The Undergraduate And Postgraduate Level The Authors Felt The Need Of Such A Book. The Authors Found The Books Available On The Subject Did Not Fulfill The Requirements. No Other Book Was Concerned With All Relevant Concepts. Most Of Them Laid Emphasis Either On Thermodynamic Aspects Or On Discussing Unit Processes. Transport Phenomena Are Dealt With In Entirely Different Books. Reactor Concepts Were Again Lying In Chemical Engineering Texts. The Authors Tried To Harmonize And Synthesize The Concepts In Elementary Terms For Metallurgists.The Present Book Contains A Brief Descriptive Summary Of Some Important Metallurgical Unit Processes. Subsequently It Discusses Not Only Physical Chemistry Of Metallurgical Reactions And Processes But Also Rate Phenomena Including Heat And Mass Transfer, Fluid Flow, Mass And Energy Balance, And Elements Of Reactor Engineering. A Variety Of Scientific And Engineering Aspects Of Unit Processes Have Been Discussed With Stress On The Basic Principles All Throughout. There Is An Attempt To Introduce, As Much As Possible, Quantitative Treatments And Engineering Estimates. The Latter May Often Be Approximate From The Point Of View Of Theory But Yields Results That Are Very Valuable To Both Practicing Metallurgists As Well As Others. Ask the publishers to restore access to 500,000+ books. Ask the publishers to restore access to 500,000+ books. 0 ratings0% found this document useful (0 votes)1K views1 pageThe document outlines the topics to be covered in the course MT306 Principles of Extractive Metallurgy. The course will introduce extractive metallurgy and the occurrence of metals in natureAI-enhanced title and descriptionSaveSave Principles of Extractive Metallurgy (1).pdf For Later0%0% found this document useful, undefined0 ratings0% found this document useful (0 votes)1K views1 pageThe document outlines the topics to be covered in the course MT306 Principles of Extractive Metallurgy. The course will introduce extractive metallurgy and the occurrence of metals in nature. It will cover pyrometallurgy including ore preparation, smelting, and refining methods. Hydrometallurgy such as leaching, solvent extraction, and electro winning will also be discussed. The course will address electrometallurgy including electrodeposition and Pourbaix diagrams. Material and heat balances for metal extraction processes will be calculated. Reference books are provided.0 ratings0% found this document useful (0 votes)1K views1 pageThe document outlines the topics to be covered in the course MT306 Principles of Extractive Metallurgy. The course will introduce extractive metallurgy and the occurrence of metals in natureAI-enhanced title and description

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