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Altri autori (Persone)	RayHem Shankar
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Nota di contenuto	""Cover""; ""Preface to the First Edition""; ""Acknowledgement""; ""Glossary""; ""List of Figures""; ""List of Tables""; ""Contents""; ""Chapter 1. Introduction""; ""1.1 What is Spongs Iron and What is DRI?""; ""1.2 History of Modern Sponge Iron Making""; ""1.3 Iron Ore Reduction at a Glance ""; ""1.4 Multiple Role of a Rotary Kiln""; ""Chapter 2. Rotary Kiln Process of Making Sponge Iron""; ""2.1 Historical Background""; ""2.2 Important Features ""; ""2.3 Sponge iron Pilot of RDCIS SAIL ""; ""2.4 Features of a Rotary Kiln Sponge Iron Plant ""; ""2.5 The Indian Scene "" ""2.6 Why Should we Select a Rotary Kiln?""""2.6.1 Process Strengths""; ""2.6.2 Product Strengths""; ""2.6.3 Weaknesses of the Process""; ""2.6.4 Weaknesses of the Product""; ""Chapter 3. Thermodynamic Considerations:Feasibility of Reaction""; ""Chapter 4. Aerodynamics Inside a Sponge Iron Rotary Kiln""; ""4.1 Thumb Rules Used in Production of Sponge Iron""; ""4.2 Sources of Gas ""; ""4.3 Effects of Air Injection""; ""4.4 Limits to Gas Velocity""; ""4.5 Gas Flow Pattern""; ""4.6 CFD Analysis""; ""Chapter 5. Mathematical Modellingin Rotary Kiln Sponge Iron Making""; ""5.1 What is a Model?"" ""5.2 What is a Mathematical Model?""""5.3 How Can we Make a Useful Mathematical Model?""; ""5.4 Example of a Small Mathematical Model"";

""5.5 Role of Coal in Rotary Kiln Sponge Iron Making Process""; ""5.6 Quantity of Protective Char""; ""5.7 Reduction of Iron Oxide""; ""5.8 Coal for Combustion ""; ""5.9 Waste Gas Temperature""; ""5.10 Programming Based on Model""; ""5.12 Segment-wise Modelling ""; ""5.13 Prediction from the Model ""; ""5.14 Summary of the Modelling Process""; ""Chapter 6. Physical Movement of Solids Inside a Rotary Kiln: Charge Movement and Coal Throwing/Slinging"" ""6.1 Importance of Residence Time """"6.2 Estimation Gross Residence Time from Input and Output of Solids ""; ""6.3 Charge Movement: Cascading Flow of Granular Material""; ""6.4 Mathematical Treatment of Charge Movement ""; ""6.5 Importance of Filling Degree""; ""6.6 Techniques of Measuring Residence Time ""; ""6.7 Importance of Throwing Coal From Discharge End""; ""6.8 Coal Throwing Philosophy""; ""Chapter 7. Requirement, Generation and Transfer of Heat in a Sponge Iron Rotary Kiln""; ""7.1 Material and Energy Balance in a Conventional Rotary Kiln Sponge Iron Making Process "" ""7.2 Generation and Transfer of Heat""""7.3 Mathematical Treatment of Heat Transfer""; ""7.4 Segment-wise Air Requirement""; ""Chapter 8. Reaction Kinetics""; ""8.1 Factors Affecting Reaction Rates ""; ""8.2 Rate Law and Order of Reaction ""; ""8.3 Birth of the Rate Law or Law of Mass Action ""; ""8.4 Unimolecular Reaction and First Order Reaction""; ""8.5 Decomposition of an Oxide ""; ""8.6 Temperature Dependence of Velocity Constant: The Arrhenius Equation""; ""8.7 Experimental Determination of Activation Energy""; ""8.8 Variation of Reaction Rate with Temperature "" ""8.9 Role of Diffusion""

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