

1. Record Nr.	UNINA9910463630403321
Titolo	Modern blast furnace ironmaking : an introduction / / Maarten Geerdes [and four others]
Pubbl/distr/stampa	Amsterdam, Netherlands : , : IOS Press, , 2015 ©2015
Edizione	[Third edition.]
Descrizione fisica	1 online resource (228 p.)
Disciplina	669.1413
Soggetti	Blast furnaces Iron smelting Electronic books.
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.
Nota di contenuto	<p>""Title Page ""; ""Preface""; ""Contents""; ""List of Symbols and Abbreviations""; ""Introduction of the Blast Furnace Process ""; ""Global steel consumption""; ""Short description of the process""; ""The layer structure within a furnace""; ""The equipment""; ""Book overview""; ""The Blast Furnace: Contents and Gas Flow ""; ""The generation of gas and gas flow through the burden ""; ""Furnace efficiency""; ""Removal of liquids""; ""An example of gas flow and contents of a blast furnace ""; ""The Ferrous Burden: Sinter, Pellets, Lump Ore ""; ""Introduction""; ""Iron ore""</p> <p>""Quality demands for the blast furnace burden""""Sinter""; ""Pellets""; ""Lump ore""; ""Metallics charge and briquettes ""; ""Interaction of burden components""; ""Chemical control of the burden""; ""Coke""; ""Introduction: function of coke in the blast furnace ""; ""Coal blends for cokemaking""; ""Coke quality concept ""; ""Coke size distribution""; ""Strength of coke""; ""Coke deadman""; ""Overview of international quality parameters""; ""Injection of Coal, Oil and Gas""; ""Properties of coal, oil and gas""; ""Coal injection""; ""Natural gas injection""; ""Coala€? gas coa€?injection""</p> <p>""Complete combustion of injectants""""Burden Calculation and Mass Balances ""; ""Introduction""; ""Burden calculation: starting points""; ""An example of a burden calculation""; ""Process calculations: a simplified</p>

mass balance""; ""Estimation of direct reduction""; ""The Process:  
 Burden Descent and Gas Flow Control ""; ""Burden descent: where is  
 voidage created?""; ""Burden descent: system of vertical forces""; ""Gas  
 flow in the blast furnace""; ""Fluidization and channelling""; ""Burden  
 distribution""; ""Coke layer""; ""Ore layer thickness""; ""Blast furnace  
 instrumentation""  
 ""Blast furnace daily operational control""""Blast Furnace Productivity  
 and Efficiency ""; ""Productivity""; ""Efficiency""; ""Following the gas in  
 the furnace""; ""Hot Metal and Slag""; ""Formation of hot metal and  
 slag""; ""Hot metal as cast from the furnace""; ""Hot metal and the steel  
 plant""; ""Slag""; ""Casthouse Operation""; ""Objectives""; ""Liquid iron  
 and slag in the hearth""; ""Removal of liquids through the taphole"";  
 ""Typical casting regimes""; ""Taphole drill and clay gun""; ""Hearth  
 liquid level""; ""Delayed casting""; ""No slag casting""; ""Onea€?side  
 casting""  
 ""Not dry casts""""Defining a dry hearth ""; ""Oxygen lancing""; ""Cast  
 data recording""; ""Operational Practices and Challenges ""; ""The  
 burden""; ""Burden descent""; ""Recirculation of alkali and zinc"";  
 ""Circumferential symmetry""; ""Tuyeres""; ""Stops and starts"";  
 ""Casthouse challenges""; ""Greenhouse gas emissions""; ""Annex I.  
 Glossary ""; ""Annex II. Further reading ""; ""Annex III. Starting point for  
 calculation examples ""; ""Annex IV. Rules of thumb ""; ""Annex V. Coal  
 types used for coke making ""; ""Annex VI. Coke quality tests "";  
 ""Annex VII. Expert systems and models ""  
 ""Annex VIII. Rist diagram ""

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## Sommario/riassunto

This book describes the blast furnace process for operators. As a  
 starting point, the blast furnace is seen as a simple iron ore melter,  
 while gradually the physical, chemical and metallurgical background is  
 clarified. Operational observations, challenges and remedies are  
 explained from this perspective. Optimization of the blast furnace  
 process is not only based on "best practice transfer", but also requires  
 conceptual understanding of what works when. In other words:  
 operational improvement is not only based on know-how, but on  
 know-why as well. With Modern Blast Furnace Ironmaking - An Intr

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2. Record Nr.	UNISALENTO991003858559707536
Autore	Ruini, Meuccio
Titolo	Pensatori e politici del prerisorgimento e Risorgimento d'Italia / Meuccio Ruini
Pubbl/distr/stampa	Milano : Giuffrè, 1962
Descrizione fisica	VIII, 305 p. ; 24 cm.
Collana	Scritti di Meuccio Ruini. Profili di storia
Disciplina	320.1 945.091092
Soggetti	Politica - Teorie - Italia
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia