

Refractory Engineering

Materials | Design | Construction
3rd completely revised Edition



Refractory Engineering Materials Design Construction By

Gerald Routschka



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Refractory Engineering Stephan Schalm, 2004-09-30 Refractory linings must be installed in plants and furnaces operated by the nonferrous metal iron and steel glass construction material chemical and petrochemical industries as well as in power plants and refuse incinerators Consequently refractory engineering is charged with a major task control the fire and protection of the supporting structure of the furnaces and plants against too high temperatures Refractory Engineering, 2016 *Refractory Engineering: Materials Design Construction 2/ed* Dgfs, 2007-01-01 Handbook of Thermoprocessing Technologies Axel von Starck, Alfred Mühlbauer, Carl Kramer, 2005 In Europe thermoprocessing is the third largest energy consumption sector following traffic and room heating Its structure is very much diversified and complex Therefore it is split into a large number of subdivisions each of them having a high importance for the industrial economy Accordingly we find the application know how for the design and the execution of respective equipment represented by a multitude of small but very specialized and significant companies and their experts As a result there was only little chance to find a comprehensive survey of the practical side of this technology so far This gap is now filled by the new Handbook of Thermoprocessing Technologies based on the contributions of many highly experienced outstanding engineers working in this field The main intention of this book is the presentation of practical thermal processing for the improvement of material and parts in industrial application Additionally a summary of respective thermal and material science fundamentals is given as well as basic fuel related and electrical engineering knowledge for this technology and finally design aspects components and safety requirements for the necessary heating installations are covered In conclusion a very wide and competent state of the art description is now available for all manufacturers and users of thermoprocessing equipment But also specialists from neighbouring fields students and all those who are generally interested in this important but widely unknown technology will find a quick survey here as well as a very profound expertise **Refractories for the Chemical Industries** Prasunjit Sengupta, 2020-11-28 The book provides process engineers an insight into refractories focusing on its importance and requirements in chemical process industries such as refinery and petrochemicals syngas manufacturing coal gasification limestone calcinations carbon black glass and cement production Additionally the book discusses the refractory requirements for the CFBC boiler and waste heat utilization process to generate steam The book describes characterization of refractory material and selection process of the refractory for lining different equipments pertaining to the chemical process industry The book covers refractory installation techniques and the precautions to be taken during installation are discussed in detail along with the theoretical background It explains the physical and chemical factors that influence the performances of refractory mechanism of its degradation in service and emphasizes on the thermo chemical and thermo mechanical aspects and their role in that process The content lays out different methods of monitoring Refractory lining conditions while the furnace is in operation and also elucidates few methods to repair the worn out lining without taking a shutdown The scheme

of investigation of a refractory failure is an added feature **68th Conference on Glass Problems, Volume 29, Issue 1**
Charles H. Drummond, III,2011-02-08 This book is a state of the art collection of recent papers on glass problems as
presented at the 68th Conference on Glass Problems at The Ohio State University Topics include manufacturing glass
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details the rigorous requirements for refractories designed for aluminium metallurgical processes reduction cast house and
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chemistry and chemical interactions during the metallurgical process and from the aspect of designing reduction pots and
furnaces to accommodate the lifetime of metallurgical aggregates that are a part of aluminum refractory processes CFI
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