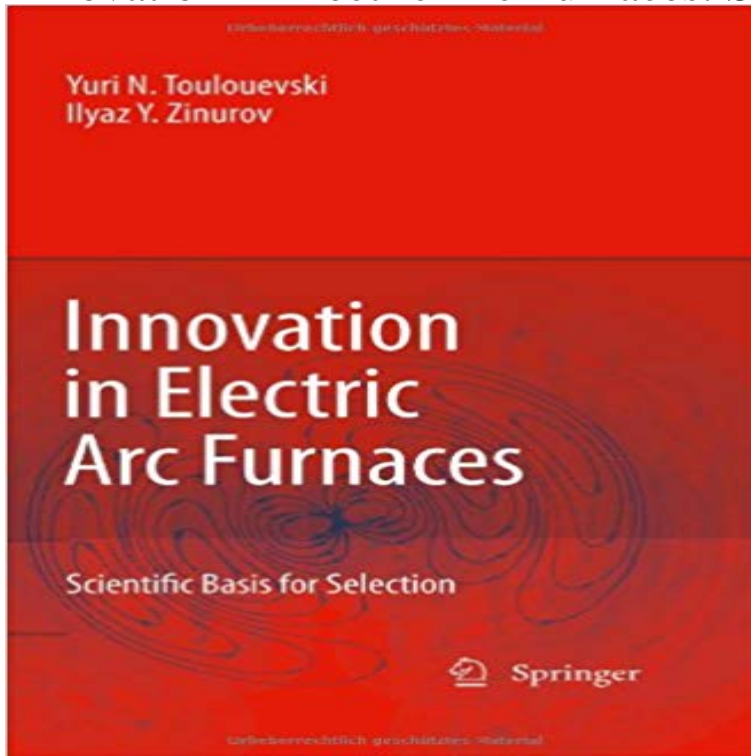


Innovation in Electric Arc Furnaces: Scientific Basis for Selection



Electric Arc Furnaces are being greatly improved at a fast pace. This book equips a reader with knowledge necessary for critical analysis of these innovations and helps to select the most effective ones and for their successful implementation. The book also covers general issues related to history of development, current state and prospects of steelmaking in Electric Arc Furnaces. Therefore, it can be useful for everybody who studies metallurgy, including students of colleges and universities. The modern concepts of mechanisms of Arc Furnace processes are presented by numerous journal articles and conference proceedings. These materials are difficult of access for a practicing engineer or metallurgist. The knowledge of general simplified yet correct in principle concepts is sufficient for decision-making. These concepts are discussed in the book at the level sufficient to solve practical problems: To help readers lacking knowledge required in the field of heat transfer as well as hydro-gas dynamics, it contains several chapters which provide the required minimum of information in these fields of science. In order to better assess different innovations, the book describes experience of the application of similar innovations in open-hearth furnaces and oxygen converters. Some promising ideas on key issues regarding intensification of the heat, which are of interest for developers of new processes and equipment for Electric Arc Furnaces, are also the concern of the book. It should be noted, that carrying out the simplified calculations as distinct from using off the shelf programs greatly promotes comprehensive understanding of physical basics of processes and effects produced by various factors. This book gives numerous examples of such calculations performed by means of simplified methods and formulas. Getting familiar with material in this book will allow the reader to perform

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