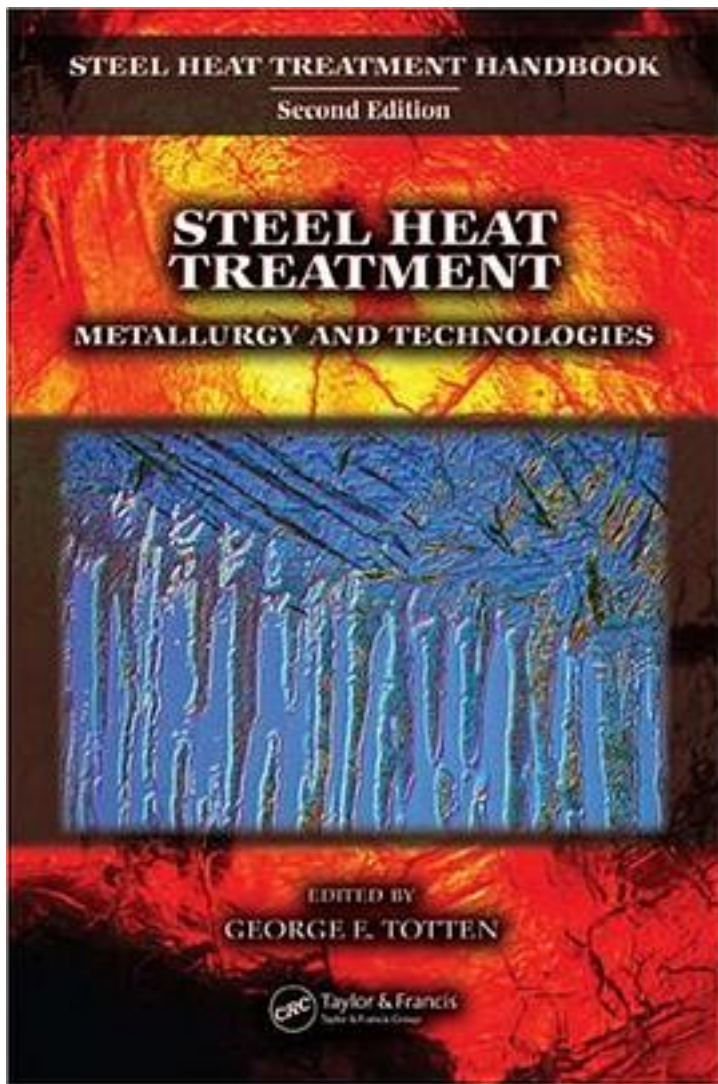


# Steel Heat Treatment



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One of two self-contained volumes belonging to the newly revised "Steel Heat Treatment Handbook, Second Edition", this book focuses on process design, equipment, and testing used in steel heat treatment. "Steel Heat Treatment: Equipment and Process Design" presents the classical perspectives that form the basis of heat treatment processes while incorporating detailed descriptions of the latest advances since the 1997 publication of the first edition. This book covers the basic principles of heat treatment and the equipment used in modern industrial settings. It also offers detailed coverage of induction heat treatment as well as important types of furnaces, heat transfer, cooling processes, computation, power supplies, laser treatments, residual stress and loading, microstructural analysis, and quality control. The book features thoroughly updated and new information, most notably in the chapters on vacuum heat processing, designing quench processes, laser hardening, and metallurgical property testing. "Steel Heat Treatment: Equipment and Process Design" provides a focused resource for everyday use by advanced students and practitioners in metallurgy, process design, heat treatment, and mechanical and materials engineering.

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