



# **Handbook of Induction Heating, Second Edition (Manufacturing Engineering and Materials Processing)**

*By Valery Rudnev, Don Loveless, Raymond L. Cook*

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The second edition of the **Handbook of Induction Heating** reflects the number of substantial advances that have taken place over the last decade in theory, computer modeling, semi-conductor power supplies, and process technology of induction heating and induction heat treating. This edition continues to be a synthesis of information, discoveries, and technical insights that have been accumulated at Inductoheat Inc., at industry and academia.

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### Editorial Review

#### Review

"This is the bible of the induction heating industry. No other text comes close to matching the breadth and depth of coverage found here." -Barbara Oakley, Ph.D., P.E., Assistant Professor of Engineering, Oakland University, Rochester, Michigan "There are relatively few good texts on this subject and even fewer written on an engineering level as this book is." -George Totten, Ph.D., FASM, President, G.E. Totten & Associates, LLC, Seattle, Washington "As induction specialists, we have had many opportunities to have hands-on experience with induction processes including selective hardening, tempering, stress relieving, etc. In writing this letter we would like to let you know our opinion in regard to recently published Handbook of Induction Heating. We feel that this handbook is not just the most comprehensive text on induction heating ever published, but it is also the most valuable, practical guide for troubleshooting and solving everyday problems for induction heating practitioners. We would like to thank you for providing induction heating industry with such beneficial handbook" -V. Frankfurt, Metallurgical Engineer, American NTN Bearing Manufacturing Corp., Elgin, Illinois "CONGRATULATIONS!! I have looked at every page and I am very impressed with your "Handbook of Induction Heating" book. In my 50 years in this industry, this is the best book that covers the full range of topics that I've seen. You all are to be commended for a fine job!" -Joe Arnosky, Vice President, Industrial Heating Systems, Fort Worth, Texas "this book can be considered as a very good reference for students, industrial engineers and for people working in induction field. The readers will find out a good theoretical background to facilitate the understanding of induction heating and a good overview of the application of this electrotechnology in metallurgical industry" -Jean Carignan Eng. M. Sc. A., Research Engineer, Laboratoire des Technologies de l'Inergie, Shawinigan, Quebec, Canada "The Handbook of Induction Heating by Rudnev, Loveless, Cook, and Black provides the essence of knowledge acquired over a hundred years of combined experience of the authors. The book has the right combination of theory and practice and thus it will serve as a valuable tool to engineers, scientists, students, teachers, and all users." -Tirupathi R. Chandrupatla, Ph.D., P.E., CmfgE, Professor and Chair, Mechanical Engineering Department, Rowan University, Glassboro, New Jersey "Being in induction heat treating business for about 40 years I can say that this book will be the new classic for the induction heating industry. It is a ready reference for anyone with induction heating questions." -Charlie Larson, Electrical Engineer, CLI, Inc., South Lyon, Michigan "Recently I had the opportunity to review "Handbook of Induction Heating" written by Dr.Rudnev, Mr.Loveless, Mr.Cook and Mr.Black. As a specialist in metallurgy and metal heat treatment, it is particularly appealing to me that this text provides a good balance describing inter-related principles of electricity, heat transfer, metallurgy and heat treatment concentrating on the specifics of induction heating process. This book should be considered an ultimate source book for induction heating and induction heat treating. Congratulations with your handbook." -Dr.Alex Sverdlin, Professor, Department of Industrial & Manufacturing Engineering & Technology, Bradley University, Peoria, Illinois "An extremely thorough book that provides a theoretical yet very practical understanding of induction heating." -Deepayan Home, Master's Student, Department of Mechanical Engineering, McMaster University, Ontario, Canada "The Handbook of Induction Heating is a true handbook. There are many diagrams, graphs, and good pictures, which help the reader's understanding of the subject. This comprehensive reference is a "must have" for everyone involved with induction heating." -Carl Roos, President, R & L Industries, Inc., Holly, Michigan Promo Copy

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