



Steels: Microstructure and Properties

By Harry Bhadeshia

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Steels represent the most widely-used metallic alloy, possessing a wide range of microstructures and mechanical properties. By examining the mechanical properties of steels in conjunction with microstructure this book provides a valuable description of the development and behaviour of these materials - the very foundation of their widespread use. Updated throughout and including new chapters on nanostructured steels, and new alloys and technologies for the energy and automobile industries, the book is clearly written and illustrated, with extensive bibliographies and real-life examples. An essential reference, both compact and readily comprehensive, for metallurgists and engineers in both industry and academia.

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Editorial Review

About the Author

Harry Bhadeshia is the Tata Steel Professor of Physical Metallurgy at the University of Cambridge and Professor of Computational Metallurgy at POSTECH. He graduated with a B. Sc. from the City of London Polytechnic, followed by a Ph.D. at the University of Cambridge. His research is concerned with the theory of solid-state transformations in metals, particularly multicomponent steels, with the goal of creating novel alloys and processes with the minimum use of resources. He is the author or coauthor of more than 500 research papers and six books on the subject. He is a Fellow of the Royal Society, Fellow of the Royal Academy of Engineering, the National Academy of Engineering (India) and the American Welding Society.

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