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design, construction and inspection activities. New content in this edition covers the standards and codes of the Canadian Welding Society, and the DNV standards in addition to updates to existing coverage

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of the American Welding Society, American Society of Mechanical Engineers, The Welding Institute (UK). The book's four part treatment starts with a clear and rigorous exposition of the science of

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metallurgy including but not limited to: Alloys, Physical Metallurgy, Structure of Materials, Non-Ferrous Materials, Mechanical Properties and Testing of Metals and Heat Treatment of

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Steels. This is followed by applications: Welding Metallurgy & Welding Processes, Nondestructive Testing, and Codes and Standards. Case studies are included in the book to provide

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Material During Welding,
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materials properties and performance, including modelling and simulation. The principal motivation for this Handbook stems from the increasing demands of technology for measurement results that can be

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concepts, methods and
techniques to examine
symptoms of faults and
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systems and components
and to monitor
functional performance
and structural
integrity. The book is
organized in five parts.
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scope and application of technical diagnostics and gives a comprehensive overview of the physics of failure. Part B presents all relevant methods and

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techniques for
diagnostics and
monitoring: from stress,
strain, vibration
analysis, nondestructive
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to computed tomography
and subsurface
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illustrates case studies, and outlines machinery diagnostics with an emphasis on tribological systems. Part D describes the application of

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monitoring and
performance control to
plants and the technical
infrastructure,
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