



# Innovative Process Development in Metallurgical Industry: Concept to Commission

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This book describes the phases for innovative metallurgical process development, from concept to commercialization. Key features of the book include:

- Need for process innovation
- Selection and optimization of process steps
- Determination of the commercial feasibility of a process including engineering and equipment selection
- Determination of the environmental footprint of a process
- Case-study examples of innovative process development

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#### **About the Author**

Dr. V.I. Lakshmanan is an internationally renowned teacher, scientist and innovator in the area of sustainable development. He has more than 40 years of hands-on experience in technology commercialization and skills development initiatives with both private and public sectors including the United Nations. He has successfully guided process technologies from concept through development and demonstration to commercialization for resource, energy and chemical industries. Dr. Lakshmanan is an Adjunct Professor within the Department of Materials Science and Engineering at the University of Toronto and is a member of several private and public sector advisory committees on natural resources, recycling technologies and waste management.

Dr. V. "Ram" Ramachandran has over 39 years of experience in non-ferrous metal industry with emphasis on process development and process improvements including water conservation and treatment. He received Milton. E. Wadsworth Hydrometallurgy Award in 2001 and Distinguished Services Award in 2008.

Dr. Raja Roy has over 18 years of experience in minerals processing and metallurgical engineering with emphasis on process flowsheet development. He received Light Metals Recycling Award in 1998. He is currently Senior Project Manager at Process Research Ortech Inc. based in Mississauga, Ontario, Canada.

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