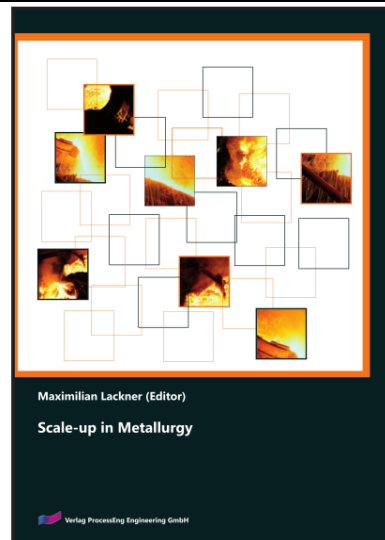


Scale-up in Metallurgy

- Edited by **Maximilian Lackner**
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About the book:

With hundreds of millions of tons/year, metal production is carried out on a large scale. With fierce competition and stringent environmental boundary conditions, it is vital to use the best possible production processes. Scale-up is the science of transferring a (novel) process from the laboratory or bench-scale to the industrial scale. This book is dedicated to scale-up in metallurgy. Steel, iron, aluminium, copper, zinc, manganese, titanium, cadmium, noble metals, carbides and others are covered. Thereby, the book closes a gap in the current literature. Written by recognized experts from industry and academia, this book is for scientists, engineers and practitioners in all fields of metallurgy, from basic research to process development and plant and mill operation.

Authors & chapters:

- **Maximilian Lackner**, Introduction
- **Kamil Wichterle, Marek C. Ruzicka**, Scale-up Fundamentals
- **Wensheng Zhang**, Scale-up of Manganese Production
- **Mohammad Al-Harashsheh, Samuel Kingman**, Scale-up of Microwave Leaching
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