



Extractive Metallurgy of Nickel, Cobalt and Platinum Group Metals

Frank Crundwell, Michael Moats, Venkoba Ramachandran, Timothy Robinson, W. G. Davenport

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This book describes and explains the methods by which three related ores and recyclables are made into high purity metals and chemicals, for materials processing. It focuses on present day processes and future developments rather than historical processes.

Nickel, cobalt and platinum group metals are key elements for materials processing. They occur together in one book because they (i) map together on the periodic table (ii) occur together in many ores and (iii) are natural partners for further materials processing and materials manufacturing. They all are, for example, important catalysts – with platinum group metals being especially important for reducing car and truck emissions. Stainless steels and CoNiFe airplane engine super alloys are examples of practical usage.

The product emphasises a sequential, building-block approach to the subject gained through the author's previous writings (particularly Extractive Metallurgy of Copper in four editions) and extensive experience. Due to the multiple metals involved and because each metal originates in several types of ore – e.g. tropical ores and arctic ores this necessitates a multi-contributor work drawing from multiple networks and both engineering and science.

- Synthesizes detailed review of the fundamental chemistry and physics of extractive metallurgy with practical lessons from industrial consultancies at the leading international plants
- Discusses Nickel, Cobalt and Platinum Group Metals for the first time in one book
- Reviews extraction of multiple metals from the same tropical or arctic ore
- Industrial, international and multidisciplinary focus on current standards of production supports best practice use of industrial resources

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