



# Extractive Metallurgy of Vanadium (Process Metallurgy)

*C.K. Gupta*

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Much of the technology on vanadium extraction and processing has been developed during the past three decades. Because of the newness of these developments, there has been a definite need for a monograph providing comprehensive and up-to-date coverage of the subject. The present volume meets this need.

It opens with an account of the properties and applications of vanadium, as well as all its different investigated sources. The authors then go on to describe a variety of processing techniques, and the preparation of vanadium compounds, alloys and the pure metal. Complete descriptions and detailed flowsheets for the extraction of vanadium in its different commercially useable forms are provided.

The chemical and metallurgical principles involved in the various unit operations of vanadium extraction have been covered in detail, and an up-to-date and detailed survey of the physical, mechanical and corrosion properties of vanadium and its alloys is also provided. Further, the physicochemical, thermodynamic and phase diagram data have been provided for all the vanadium compounds and systems connected with the extraction and use of vanadium. Important aspects, such as the toxicity of vanadium and the precautions necessary for its safe handling are also described.

Each chapter has been shaped and developed in a highly-readable unified manner, providing an introduction to the topic and the principles, before delving into the more practical aspects. An extensive reference list provided at the end of each chapter is a particularly useful feature. The text is supported by approximately 250 figures and 100 tables.

This book makes the authors' specialised knowledge of the subject easily accessible, and as such it will be of value to plant engineers, researchers and students of extractive metallurgy and related disciplines such as materials processing, materials science and engineering, and inorganic and industrial chemistry.

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