

Preface

Extraction of Nuclear and Non-Ferrous Metals is a basic science and has a wide applicability in extraction and refining of metals. This book covers the undergraduate curriculum in **Nuclear Metallurgy and Extraction of Non-Ferrous Metals** as prescribed for degree courses and allied professional courses in Metallurgical and Materials Engineering.

Chapter 1 of this textbook, *Fundamentals of Nuclear Metallurgy*, covers almost all the important basic concepts of **Nuclear Metallurgy** for graduate engineering students. Even postgraduate students, engineers and researchers can brush up their understanding. Chapters 2–6 briefly cover **Nuclear Metals**, their extraction, properties and applications.

Chapters 7–13 discuss **Extractive Metallurgy of Common Metals**. There are detailed discussions about production of common metals (like copper, aluminium, zinc, lead etc.), their properties and applications.

Chapters 14–20 describe the **Extractive Metallurgy of Less Common/Ferro-Alloying Metals**. Their production, properties and applications are discussed in detail. Chapter 21 discusses **Ultra-High-Purity Metals Production**.

Needless to say that although few books are available, none discusses the subject matter of **Nuclear Extractive Metallurgy** in easily understood terms for students. Based on our experience of teaching this subject at undergraduate level for more than three decades, we have made a sincere attempt to cover the topics of **Nuclear Metallurgy** in an easy way.

In spite of taking all possible care, there may be some errors or mistakes left unnoticed. If so, please feel free to interact with us. We poured our long experience into this project, and also collected the information from several sources. We are indebted to one and all, from whose valuable knowledge we have been benefited. Thanks all of them.

We are confident that this textbook will make the subject matter of *Extraction of Nuclear and Non-Ferrous Metals* more simple and easy to understand. We wish to thank the publisher Springer for their continuous support in preparation and publication of this textbook within a short period.

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