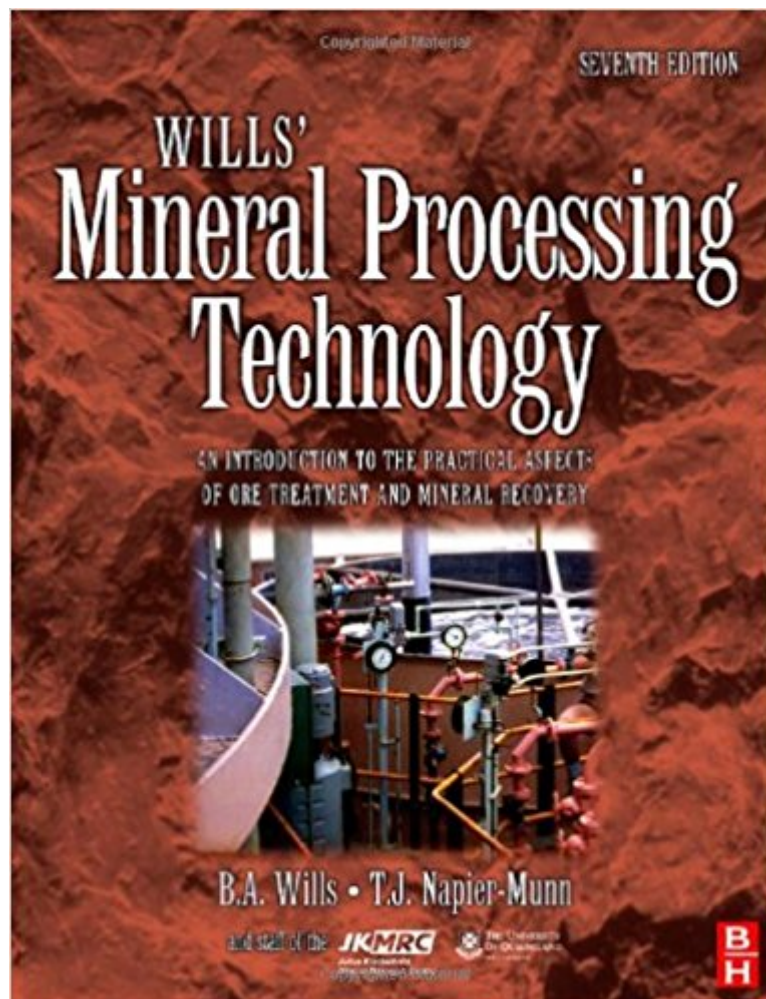




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# **Wills' Mineral Processing Technology, Seventh Edition: An Introduction To The Practical Aspects Of Ore Treatment And Mineral Recovery**





## Synopsis

Wills' Mineral Processing Technology provides practising engineers and students of mineral processing, metallurgy and mining with a review of all of the common ore-processing techniques utilized in modern processing installations. Now in its Seventh Edition, this renowned book is a standard reference for the mineral processing industry. Chapters deal with each of the major processing techniques, and coverage includes the latest technical developments in the processing of increasingly complex refractory ores, new equipment and process routes. This new edition has been prepared by the prestigious J K Minerals Research Centre of Australia, which contributes its world-class expertise and ensures that this will continue to be the book of choice for professionals and students in this field. This latest edition highlights the developments and the challenges facing the mineral processor, particularly with regard to the environmental problems posed in improving the efficiency of the existing processes and also in dealing with the waste created. The work is fully indexed and referenced.

- The classic mineral processing text, revised and updated by a prestigious new team
- Provides a clear exposition of the principles and practice of mineral processing, with examples taken from practice
- Covers the latest technological developments and highlights the challenges facing the mineral processor
- New sections on environmental problems, improving the efficiency of existing processes and dealing with waste.

## Book Information

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## Customer Reviews

“Mineral Processing Technology will continue to be a key reference book for mineral

engineering professionals and a recommended textbook for mineral processing students. – Mark S. Klima, Mineral Processing and Geo-Environmental Engineering, Pennsylvania State University

The established text and professional reference on ore and mineral processing, from extraction to raw material

This is a good book that does a good job of explaining multiple beneficiation methods. Well worth a read; definitely recommend it.

It is well written and has a lot of information that I was looking for. I will use this book for many years to come

This product was as described. It was new, boxed and wrapped well. The information I have got from the book has been well written, professional and very beneficial.

Wills' Mineral Processing book is a good tool to get an understanding at an intermediate level. Each chapter worth for review.

I bought this book for an upcoming Professional Licensing Exam, and I have to say, I am disappointed. The book is great for non-mining profession related university student, a mid-career teacher changing fields industry or for a general I am curious as to what Mineral Processing is. To start with, I had hoped for equations that were concise, neat and easily understood. I had expected examples to follow a logical order and concise syntax. What I got were equations whose nomenclature are nowhere near close to generally established academic and industrial nomenclature, and worst they don't resemble the variable it intends to represent. For example, "Q" stands for flow (water flow, air flow, etc), always has, always will and for nearly a century or more. I have seen this standard nomenclature in dozens of different magazines, textbooks and vendor supplied literature. The author uses "F" for flow. So, while this will make all the intuitive sense in the world to a lay person or a seeker for knowledge for knowledge sake, it is maddeningly frustrating because the F gets coupled with D (for Density), x for %Solids, 1000 for S or D. (The very generally accepted designations are Rho, Cw and while 1000 kg/m<sup>3</sup> is correct it is never used in place for specific gravity or 1). If this was not bad enough and while the examples were great, they were

solved in halting, haphazard and sloppy ways. Equations were set up in rote forms (as one would write up in a pinch or a hurry or they have done a hundred times and needed a memory jog). Some equations followed clear delineations but when presented in examples new and more confusing equations emerged. Finally, one more complaint, I understand that the world is SI, and I understand that Academia is trying to act die hard SI and I even accept that I will see SI in patently American references (a depressingly precious few), but this book has everything in SI and this adds one more layer of frustration. I must stress that I do expect to see mixed systems, but this book is tilted 100% SI and no offer of the English system. Not only that, but the units are also in forms that are not generally utilized in the industry. If you need a good reference material, seek out a handbook and settle for paying more.

Rehash of 50 year old material. Nothing in the book I did not learn about in the fifties. OK as a historical review.

This comprehensive book focuses on beneficiation methods. These include crushing, grinding, comminution, froth flotation, dense medium separation, etc. Parts of this book are quantitative, and suggested Excel spreadsheet formats are provided. There is a relatively sophisticated introduction to the economics of metal recovery. For instance, when tin occurs within easily-accessible alluvial deposits, as little as 0.01% tin (that's a mere 100 ppm) is commercially exploitable. In contrast, when tin occurs in veins that require deep mining to reach it, a minimum level of 1.5% may be necessary to make it worth getting (p. 4). Considering their increasing importance in recent years, there is little attention devoted to the rare earth minerals. However, the table provided on the polarity of minerals (p. 270) includes some commonly REE-bearing ones (e. g. apatite, monazite). Likewise, the table provided on the electrical behavior of minerals (p. 367) includes the same two minerals. Virtually all mining operations involve the production of mine waste. Apropos to this, there is a helpful chapter on methods of dealing with mine tailings.

This book seems to be a good reference. Some photos are not clearly reproduced. I wished that there was more treatment on mineral flow sheets and typical plant layouts for copper or gold recovery.

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