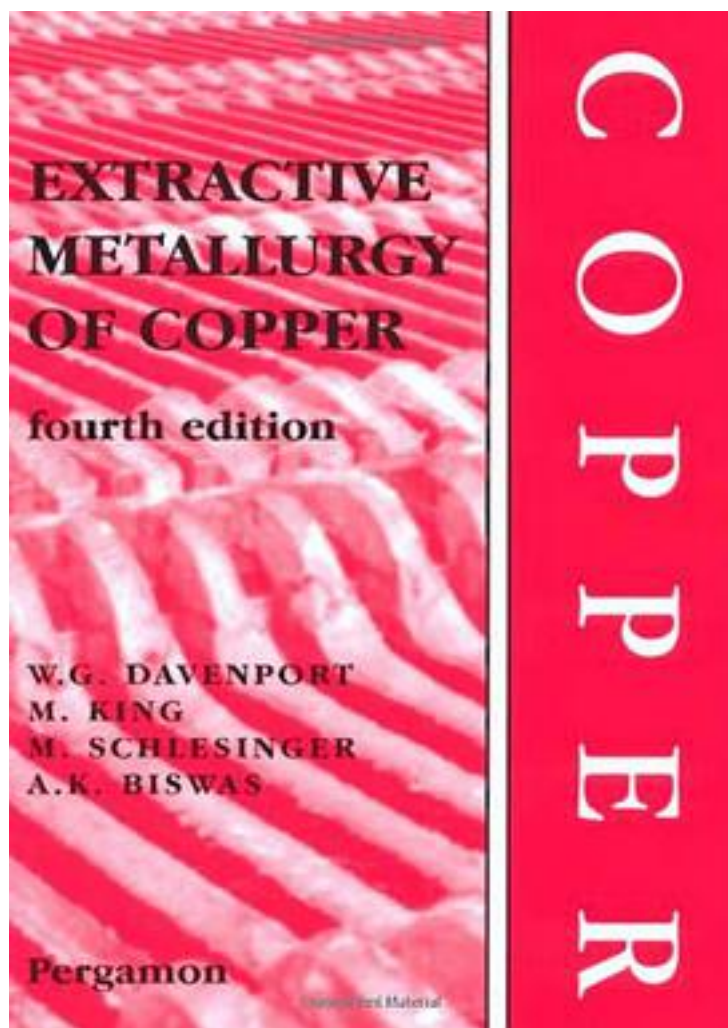


# Extractive Metallurgy of Copper



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This new edition has been extensively revised and updated since the 3rd edition

published in 1994. It contains an even greater depth of industrial information, focussing on how copper metal is extracted from ore and scrap, and how this extraction could be made more efficient. Modern high intensity smelting processes are presented in detail, specifically flash, Contop, Isasmelt, Noranda, Teniente and direct-to-blister smelting. Considerable attention is paid to the control of SO<sub>2</sub> emissions and manufacture of H<sub>2</sub>SO<sub>4</sub>. Recent developments in electrorefining, particularly stainless steel cathode technology are examined. Leaching, solvent extraction and electrowinning are evaluated together with their impact upon optimizing mineral resource utilization. This book demonstrates how recycling of copper and copper alloy scrap is an important source of copper and copper alloys. Copper quality control is also discussed and the book incorporates an important section on extraction economics. Each chapter is followed by a summary of concepts previously described and offers suggested further reading and references.

作者介绍:

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