

Noble Metals and Biological Systems: Their Role in Medicine, Mineral Exploration, and the Environment

By Robert R. Brooks



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Noble Metals and Biological Systems examines the relationship between noble metals (gold, silver, and platinum group metals) and biological systems. The book is divided into three parts.

Part 1 is concerned with the analytical chemistry of noble metals and includes a description of the latest methods of analysis.

Part 2 describes such topics as ecology and environmental science of noble metals as they pertain to biogeochemical exploration, noble metals in hair, the environmental geochemistry of palladium, microorganisms and noble metals, animals and noble metals, and a general survey of noble metals in the environment. Coverage is comprehensive and includes information regarding the use of dogs and termites as field assistants in mineral prospecting, as well as the fascinating story of the "gold bug", a microorganism that plates itself with gold.

Part 3 is devoted entirely to noble metals in the treatment of disease and includes chapters describing the use of osmium and gold for arthritis treatment, silver as a bactericide, and platinum and ruthenium as anticancer agents.

Noble Metals and Biological Systems will provide fascinating reading for applied geochemists, environmentalists, public health specialists, ecologists, microbiologists, clinical biochemists, oncologists, and specialists in rheumatic diseases.



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• Sales Rank: #7008862 in Books

Published on: 1992-04-06Original language: English

• Number of items: 1

• Dimensions: 9.75" h x 6.50" w x 1.00" l, .1 pounds

• Binding: Hardcover

• 416 pages

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