

## —New Books—

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### **MAGNETIC LEVITATION TRANSPORT OF MINING PRODUCTS**

By J.J. Geraghty, W.E. Wright and J.A. Lombardi  
US Bureau of Mines Report RI 9555 (1995), 8 pp., US\$17.50 or US\$9.00 (fiche)

US Bureau of Mines researchers investigated the development of an innovative transport system for underground coal mining. A one-half commercial-scale bench model was constructed. Novel magnetic levitation technology was developed. Frictionless and contactless transport of a prototype materials container and payload has been demonstrated.

### **THE INDUSTRIAL MINERALS HANDYBOOK**

By Peter W. Harben  
Industrial Minerals Information Ltd., Worcester Park, UK, 2nd Edition, 1995,  
300 pp., US\$118.00

This second edition of Industrial Minerals Handybook contains information on over 80 industrial minerals, rocks and their derivatives. Information on each mineral includes: properties and uses, quality and specifications, capacity, world capacity utilisation, market conditions, marketing factors, health and safety, substitutes and alternatives, recycling, producers, world trade, prices, HTS codes and etymology. The handbook also contains full elemental conversion chart, annual exchange rates for 150 currencies since 1980, apparent mineral consumption by leading countries.

### **ADVANCED COMPUTATIONAL AND DESIGN TECHNIQUES IN APPLIED ELECTROMAGNETIC SYSTEMS**

Edited by S.Y. Hahn  
Elsevier, Amsterdam, 1995, 766 pp, US\$267.75

This volume contains proceedings of the international symposium held in Seoul, Korea in June 1994. The symposium was concerned with advanced computational and design techniques in applied electromagnetic system including devices and materials. The scope of the proceedings covers a variety of topics: optimal design techniques and applications, advanced numerical techniques, physics and applications of magnetic levitations, superconductivity, modelling and applications of magnetic fluids, magnetic materials and others.

**PHYSICAL METALLURGY AND PROCESSING OF INTERMETALLIC COMPOUNDS**

Edited by N.S. Stoloff and V.K. Sikka  
Chapman and Hall, London, 1995, 656 pp, £75.00

Integrating basic science with existing and emerging applications, this volume will benefit those engineers and scientists who are interested in crystal defects, grain boundary structure, alloy development, melting and casting, powder production, mechanical properties, and joining of intermetallic compounds.

**HANDBOOK ON THE PHYSICS AND CHEMISTRY OF RARE EARTHS**

Volume 19: Lanthanides/Actinides: Physics II.  
Edited by K.A. Gschneider Jr., L. Eyring, G.R. Choppin and G.H. Lander  
Elsevier Science B.V., Amsterdam, 1994, 724 pp, US\$322.75

The book comprises five chapters of comparative physics and thermodynamics of lanthanide and actinide materials. The first two chapters are concerned with neutron scattering studies while the next two deal with studies of physical properties involving electronic, thermal and magnetic behaviours. The final chapter covers the thermodynamic properties of metallic systems.

**GUIDE DES MINES ET CARRIERES 1995 (THE GUIDE TO MINES AND QUARRIES 1995)**

Societe de l'industrie Minerale, Paris, France, 1995

This is an annual publication for the metals, minerals and ceramic industries. It comprises 500 pages containing 3000 addresses of mines, mining organisations, quarries, suppliers and management. The book covers a wide range of mining and quarrying activities and provides tables of french mining and quarrying facilities and those in French-speaking countries. Charts and diagrams are used to identify research and engineering centres.