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REVIEWS

THE UTILITY OF REGIONAL GRAVITY AND MAGNETIC ANOMALY MAPS, edited by W. J. Hinze. Published by the Society of Exploration Geophysicists, Tulsa, Oklahoma, 1985, xiv + 454 pp., color illustrations, index, \$75.00

This volume presents thirty-three papers by more than fifty authors representing the remarkable body of scientific information gained from recent compilation of gravity and magnetic anomaly maps. The subjects included range from map preparation to the multitudinous uses of regional maps illustrated with actual examples from mineral and geothermal exploration, earthquake-hazard evaluation, general geologic mapping, and the exploration for petroleum. Digital processing, digital filtering, and data-enhancement techniques applied to gravity and magnetic data are extensively treated. The application of geophysical techniques to determine the nature of the basement rock beneath the cover of sedimentary and surficial deposits is stressed to provide an improved knowledge of the Earth's crust. The volume begins with five large composite magnetic and gravity anomaly maps of the United States and Canada in full color. Throughout the work the map coverage ranges

from regional to national; most maps are of North America but global maps and maps of other continents are included. This volume will constitute a major reference source for gravity and magnetic maps of the Earth for many years to come.

THE FACTS ON FILE DICTIONARY OF GEOLOGY AND GEOPHYSICS, by Dorothy Farris Lapidus and Donald R. Coates, scientific adviser. Published by Facts On File Publications, New York and Oxford, 1987, iv + 347 pp., \$24.95

This is an alphabetical self-indexing reference tool to the basic terminology of geology and geophysics for the student, the amateur, and professional scientists in related fields. It is clear and concise and quite useful. The more than three thousand terms and phrases included appear to provide thorough and comprehensive coverage. The listings are enhanced by about seventy-five explanatory line drawings. This volume extends the Facts On File series; previously dictionaries on Biology, Botany, Chemistry, Mathematics, Physics, and Science have been published. The Geology and Geophysics volume is recommended as a general reference for students and nonspecialists.

--H.C.S.