

New Books

HANDBOOK OF ELECTROSTATIC PROCESSES

Edited by Jen-Shih Chang, A.J. Kelly and J.M. Crowley

This single-source reference provides detailed, comprehensive descriptions of electrostatic processes as well as their applications in areas such as rheology, atomization and spraying, industrial dust particle precipitation and filtering, biomedical engineering, gas treatment, atmospheric electricity, chemical reactors and electronic devices. The contains chapters such as Electrostatic Fundamentals, Electrification of Solid Materials, Electrostatic Charging of Particles, Electrical Phenomena of Dielectric Materials, Numerical Techniques for Electrostatics, Applications of the Electrostatic Separation Techniques and many others. With over 1500 literature citations, tables, drawings and photographs this handbook will be of benefit for engineers, physicists and material scientists.

Marcel Dekker Inc., New York 1995, 768 pp, US\$195.00.

HANDBOOK OF MAGNETIC MATERIALS

Edited by K.H.J. Buschow

Chapter One contains a detailed account of achievements on rare earth-based artificial multilayered structures. The large body of experimental results that have become available for the many intermetallic compounds in which rare earths are combined with 3d transition metals is described in Chapter Two. The ferrites form a large class of magnetic materials and some of these materials are of considerable technical importance. New results obtained on ferrites are described in Chapter Three, where the emphasis is on spinel ferrites. Results dealing with laminated amorphous alloys and electrical steels and the problems of the loss producing effect of the rotational magnetisation are highlighted in Chapter Four. Chapter Five continues the updating process of the basic magnetic interactions of rare earth intermetallics, dealing in particular with rare earth copper compounds.

North-Holland, Amsterdam, The Netherlands, 1995, 526 pp, Dfl. 370.00.