Sulfur in Organic and Inorganic Chemistry, Vol. 4; edited by Alexander Senning, Marcel Dekker Inc., New York, 1982, 465 pages, Sfr. 214.

This volume contains seven chapters which update the contents of Vol. 1 published in 1971, and consists of articles on compounds containing the sulphur—silicon bond (Haas and Hitze, 36 refs.); sulphur—nitrogen bond (Roesky, 138 refs.); sulphur—phosphorus bond (Almasi, 490 refs.); sulphur—fluorine bond (Shreeve, 481 refs.); sulphur—chlorine bond (Hardstaff and Langler, 411 refs.); sulphur—bromine bond (Magee, 118 refs.) and sulphur—iodine bond (Field and Lukehart, 189 refs.).

Unfortunately the original chapters on compounds containing S—O and S—S bonds have not been updated. Likewise the coverage of published work is largely only up to the end of 1979 in most chapters, and the otherwise excellent chapter by Roesky deals only with recent developments in acyclic S—N compounds with low coordination numbers since the same author has recently reviewed cyclic S—N systems in detail elsewhere. The volume gives a useful summary of the progress made in this area of chemistry but there is inevitably considerable overlap of material in some chapters, e.g. when S, N and a halogen all appear in a particular compound.

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Chemically Modified Surfaces in Catalysis and Electrocatalysis; edited by J.S. Miller (ACS Symposium Series 192), American Chemical Society. Washington D.C., 1982, 301 pages, $44.95 ($36.95, U.S.A. and Canada).

This volume represents the first book to be published devoted entirely to this important new area of chemistry, and the scope of the seventeen articles included encapsulates the promise of this field. The papers (both review and original research) discuss, inter alia, the subjects of polymer-anchored catalysts, chemically modified polypyrrole film electrodes, photoelectrochemistry at modified electrodes, electrochromic behaviour, Fischer—Tropsch catalysis with supported iron carbonyl clusters, techniques of electropolymerisation for preparing metallopolymer films, the immobilisation of phase-transfer catalysts (silacrowns), and (slightly out of context with the rest of the volume) molecular catalysis in layered silicates. As a volume representing the state-of-the-art, this excellent book (based on a symposium at the 182nd ACS National Meeting, New York, August 23—25th, 1981) is a compulsory purchase for any worker in the field and the price is very reasonable. The well constructed index provides a useful unification of the volume, and (invidious as it is to select individual articles) the papers from Tom Meyer, Royce Murray and Neal Armstong taken alone, would justify the existence of this book.

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