BOOK REVIEWS

The text is liberally illustrated by nearly 130 diagrams and line-drawings together with some 30 plates of excellent quality. The list of references at the end of each chapter is extensive and there are five tables listing published accounts of specific structures. Indeed the outstanding features of this book might be summarized as illustration and documentation. It is all the more surprising, therefore, to find some familiar papers missing from this plethora of quotation. Two that are noticeable by their absence are Knill's contribution (Journ. Sed. Petrology, 1959) to the concept of the filling of turbidite basins and Crowell's account of the Kimmeridgian boulder-beds of Helmsdale, Sutherlandshire (Trans. Edin. Geol. Soc., 1961), a vignette of the integrated application of linear structures and fabric elements of localized subaqueous sliding. The rather frequent typographical errors are a source of minor irritation as are other errors that can hardly be typographical, such as ascribing the crossbedding of Shotton's classic study to the Old Red Sandstone (p. 86). To compensate, the index is reasonably comprehensive and is divided into three sections, dealing with authors, formations, and subjects.

While the appeal of this book is clearly greatest for the specialist sedimentologist it is fair to say that perusal of the volume, used either as a text or as a reference tool, would be of value to all who have to deal with sediments and sedimentary bodies. G. KELLING

BUERGER (M. J.). The precession method in X-ray crystallography. London (Wiley), 1964. xvi+276 pp. Price 102s.

The precession method was devised and developed in Professor Buerger's laboratory and so it is appropriate that he should write the most complete account of its use that has yet appeared. The book, which is clearly written and well-produced, includes many excellent drawings and photographs, useful tables, and a comprehensive coverage of the literature. The text deals in detail with the theory of the method, the practical handling of the apparatus, and the interpretation of the photographs. There are also chapters on cone-axis photographs, errors, intensity determinations, the Lorentz factor and absorption, and an appendix on heating and cooling techniques. There is no doubt that any user or prospective user of the precession technique will find this book invaluable. J. ZUSSMAN

MARSHALL (C. E.). The physical chemistry and mineralogy of soils. Vol. I, soil materials. London (Wiley), 1964. vii+388 pp. Price: 90s.

This is volume I of a two-volume series dealing with the Physical

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