involved in the management of asbestos-containing products must consider its substitution by other materials. The author, in his introduction to the present edition makes the general statement: 'In effect, there are many alternatives, substitutes and replacements for asbestos, but none of these can be said to be an equivalent.' Any individual or organisation concerned by those two statements will need to know a great deal about asbestos itself and about the possible substitutes, and the extent to which they do or do not match the desirable properties of asbestos when put to specific uses. To these ends they will find the present publication immensely useful.

The book has two roughly equal parts. The first deals with 'Alternative Raw Materials' and has a chapter on each of the following: glass fibres and mineral wools; synthetic organic fibres; natural organic fibres; carbon fibres; refractory fibres; metallic fibres and composites; minerals. After each chapter there are tabulated data on properties (e.g. physical, chemical and electrical), chemical composition and manufacturers for the material concerned.

The second part is headed 'Alternative Products' and its six chapters are: fibre-reinforced cement; building materials and insulation products; heat-resistant and high-performance textiles; friction materials; reinforced plastics; packings, joints and bearings. Each of these chapters is followed by tabulations of properties and also costs and consumption for the product in question.

With regard to asbestos itself, some useful tables are provided showing world-wide production, consumption by major world areas, consumption for different uses, and prices (1987). Also tabulated are the costs and availabilities of alternative materials and a general listing of their properties under the headings of heat resistance, reinforcing strengths and chemical resistance. Each chapter of the book is annotated by copious references to the literature, reports and patents.

In the author's synopsis he refers to the 'broadly held concept that fibres of any type are hazardous if they are durable and respirable'. He understandably does not pursue this subject except in one Appendix entitled 'Alternative Materials—Suspected Health Hazards'. Understandably, because it is beyond the scope of his technical approach but also because although for some materials it is possible to state simply 'no known biological effect', for others sufficient reliable data are not yet available. Some general references to work on this important subject are provided. Dr Hodgson is to be congratulated on producing this extremely valuable work of reference bringing together in well-organised fashion so much useful information.

J. ZUSSMANN

Runcorn, S. K., Turner, G. and Woolfson, M. M., eds. *The Solar System: Chemistry as a key* to its Origin. London (The Royal Society), 1988, xviii + 251 pp. Price £50.00.

This book contains the papers given during a twoday Discussion Meeting of the Royal Society on the chemical evidence currently available bearing upon the origin of the solar system. The meeting was divided into five sessions which considered. in turn, the sources of the chemical elements, meteorites, small bodies and terrestrial planets, planetary volatiles and the origin of life. The book follows this format and includes the discussion which followed each of the sessions. The topics range from star formation to the origin of life via meteorites and the possible isotopic signatures of pre-solar-system material. The papers review the information available and discuss possible interpretations. Many diverse sources of information are brought together successfully to cover the wide range of related topics. The book is an informative summary of our current knowledge on these topics. Those with access to libraries will find the proceedings published in the Phil. Trans. R. Soc. Lond., 1987, A 325, 389-641. Though I recommend those interested in planetary science to purchase their own copy of this volume, the price asked may prove too much of a deterrent.

A. L. GRAHAM

Moores, E. M. and Wahl, F. M., Editors. *The Art of Geology*. Boulder, Colorado (Geological Society of America: Special Paper 225), 1988, viii + 140 pp., 250 colour photographs. Price \$37.50, postpaid.

Readers of *Geology* have grown to appreciate the eye-catching cover photographs—the inspiration behind this volume that comprises 140 pages of colour photographs with brief geological explanations. Whilst providing an interesting 'coffeetable' text for the amateur geologist, the quality of the photographs is variable. Moreover the choice of geological topics is of necessity random but they could have been arranged chronologically (i.e. Archaean to present-day) such as to be more instructive.

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