tain types of organic substrates in excellent yields, replacing indirect methods that require preparation of other halide com pounds. Lagow *et al.* provide an excellent perspective of the current status of this technique but unfortunately continue to provide scant information regarding the apparatus needed to obtain the type of results reported. A chapter by Adcock adds further to the reader's understanding of this area of research and development.

Organometallic reagents provide an important method of incorporating fluorine into organic substrates. Burton provides an excellent review of his work on the use of zinc, cadmium, and copper reagents to incorporate trifluoromethyl groups and perfluoroalkenyl groups into organic substrates, and in other chapters Prakash and Farnham address the recently discovered method of delivery of nucleophilic perfluoroalkyl groups to organic substrates from silane precursors.

In another chapter that will be of great general interest to synthetic chemists Olah and Li review the preparation and use of HF/Lewis base complex solutions as fluorinating reagents. Although the emphasis of this chapter is on pyridinum poly(hydrogen fluoride), it provides a very useful review of the general area. Rozen has conducted diverse and innovative studies of the use of elemental fluorine to incorporate a single fluorine atom into organic substrates, and his account of this work is itself almost worth the price of the book.

The remaining chapters, devoted to topics in structural and physical organic and inorganic chemistry, are more specialized but also offer excellent insight into their topics.

Although the glimpse of synthetic fluorine chemistry this book offers is very incomplete, it does provide the reader with excellent updates on a number of the hottest and most challenging areas of this field. Moreover, it conveys the flavor of the innovative activity prevalent in the field today.

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AIP Handbook of Modern Sensors. Physics, Designs and Applications. Jacob Fraden. American Institute of Physics, New York, 1993. xiv, 552 pp., illus. \$80. Modern Instrumentation and Measurements in Physics and Engineering.

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**Geological Maps**. Their Solution and Interpretation. T. Bolton and P. Proudlove. Cambridge University Press, New York, 1993. viii, 144 pp., illus. Paper, \$24.95. Reprint, 1989 ed.

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**Human Cognitive Abilities**. A Survey of Factor-Analytic Studies. John B. Carroll. Cambridge University Press, New York, 1993. x, 819 pp., illus. \$79.95; paper, \$29.95. s

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