some familiarity with ordinary differential equations and vector analysis.

Compared with other standard heat-transfer texts, this book is very much the same in terms of both the sequential development and the topical coverage. The main difference from the others lies in its detailed presentation, which provides much more mathematical development and derivations as well as graphical representations. Moreover, it contains in each chapter a worked-out design problem, several practical examples, and a number of homework problems. As a result, the book is considerably bulkier and lengthier (556 pages in the standard large size of 21.5 × 28 cm) than all other introductory texts. This is probably a natural outgrowth of the author's earlier book on elementary heat transfer analysis.

Despite its impressive size and comprehensiveness, however, some important topics are not covered. Notably missing are gaseous radiation and combined heat and mass transfer, which are assuming increasingly significant roles in modern technological problems. The value of the book as a general reference would also have been enhanced if a few topics of current interest, such as the heat pipe, thermal contact resistance and heat transfer in high-speed flows, had been briefly introduced and discussed.

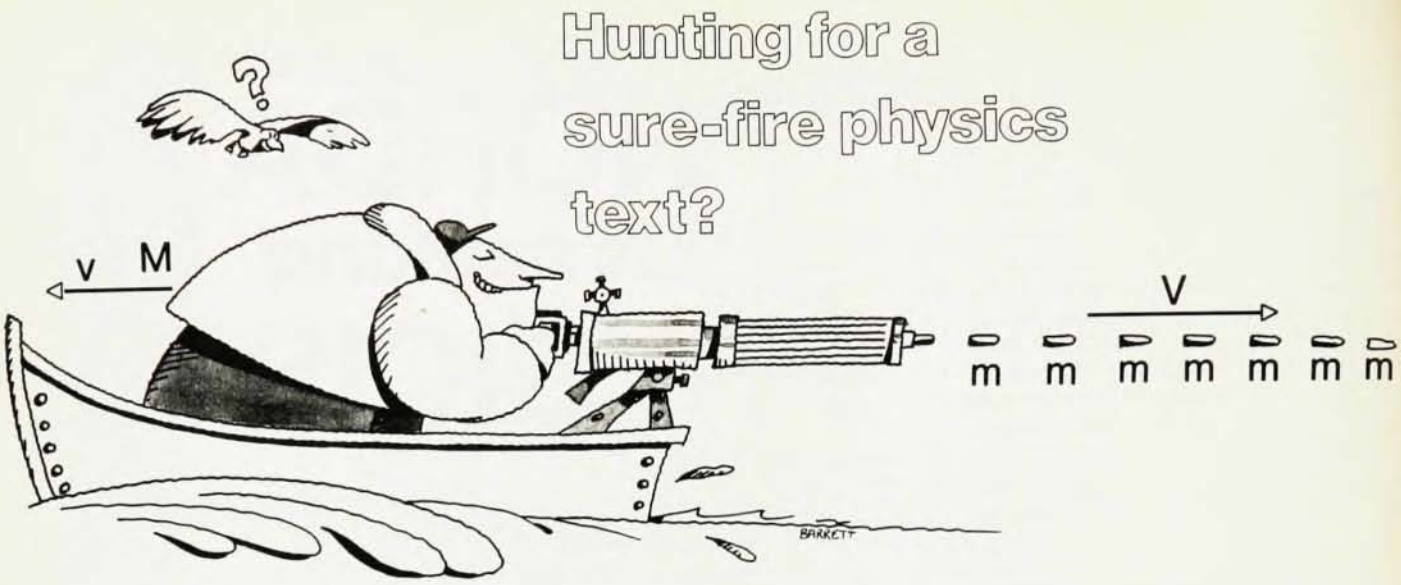
Finally, all the property values, examples and problems are still based on the British unit system, while all other recent texts have adopted either the SI system or the mixed SI and British unit system. This decision may present a problem to people outside the engineering community.

C. L. TIEN
Mechanical Engineering Department
University of California
Berkeley

book notes

Mars and its Satellites: A Detailed Commentary on the Nomenclature. J. Blunck. 200 pp. Exposition, Hicksville, N.Y., 1977. $10.00.

Since details of the Martian surface were first mapped in the mid-17th century by Christiaan Huygens, the task of naming these features has been a continuous and increasing problem. Individual astronomers have used different systems, leading to much confusion. Only with Giovanni Schiaparelli's nomenclature, deriving from the old geography and its connected mythology and first seen on his chart of 1877, has some order developed. In his introduction Jürgen Blunck describes the various systems of nomenclature that have been proposed during the past 100 years and summarizes the naming procedures adopted in a series of In-



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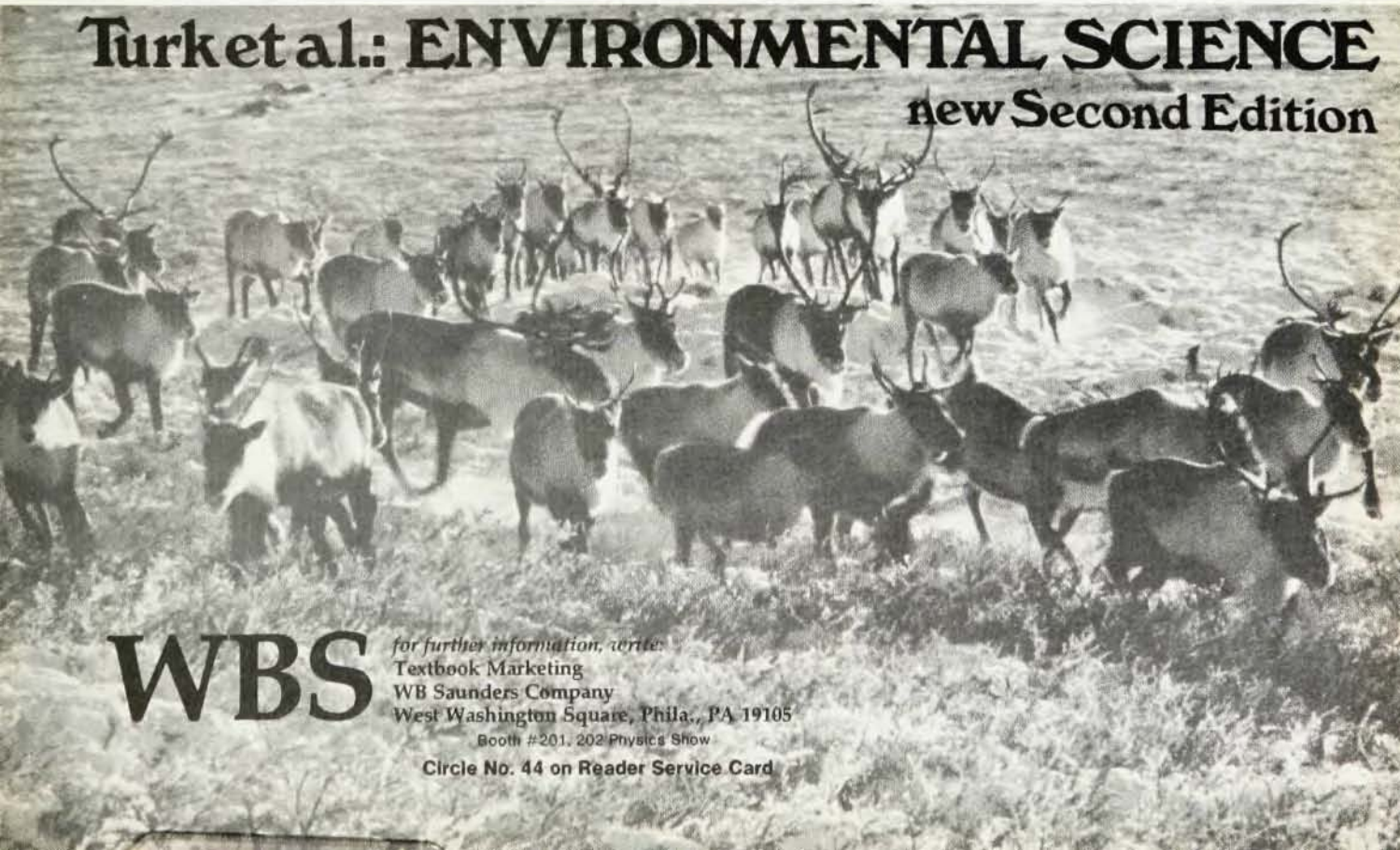

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Science and Technology in East Asia. N. Sivin, ed. 260 pp. Science History (Neale Watson), New York, 1977. $9.95 clothbound, $5.95 paperbound

The 19 papers reprinted in this volume were first published in the history of science journal *Isis* over a sixty-year period stretching from 1914 to 1976. The papers (17 on Chinese science and technology and 2 on Japanese science) are divided into four areas: quantitative sciences, qualitative sciences, technology and cultural interaction. Sivin notes that "The study of Far Eastern science and technology is the antithesis of a narrow speciality. It encompasses every variety of technical thought and action by a majority of civilized humanity over the whole sweep of history. . . . The East Asian technical traditions are still open country—among the last remaining—in a built-up world of scholarship. Over it one may pursue problems in any direction they lead, so long as they remain worth the chase." —CBW

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Advances in Nuclear Physics, Vol. 9. M. Baranger, E. Vogt, eds. 264 pp. Plenum, New York, 1977. $24.50

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