

page 1, 1995); it now appears in a far more expensive book format. It falls short as a book in terms of style and presentation, since it is written somewhat tersely, with much of the motivation absent. The book is addressed primarily to the initiated—graduate students and researchers currently active in the field—and a good deal of background is assumed on the part of the reader. While this is entirely appropriate for a journal review article, it does limit the book's potential audience to astrophysicists, plasma physicists, atmospheric physicists, fluid dynamicists and the like. This is a shame, since the book contains material that could easily be used in a variety of plasma and astrophysical contexts. However, for space physicists (and others prepared to invest a little time and effort), Tu and Marsch's book is an invaluable resource, summarizing current theories and observations and indicating new directions for research.

The authors are among the leaders in solar-wind turbulence research, and they write with confidence and authority. Alternative viewpoints, of which there are several, are addressed in an evenhanded manner—a laudable accomplishment in a rapidly changing field, where personalities, funding resources and observations make for a highly competitive environment. Although the definitive book on MHD turbulence has yet to be written, this book fills an important niche in space physics. It should find its way onto the shelves of most active space physicists, and with a little effort from the less specialized reader, it should also be useful to many in the general plasma physics, fluid dynamics and astrophysics communities.

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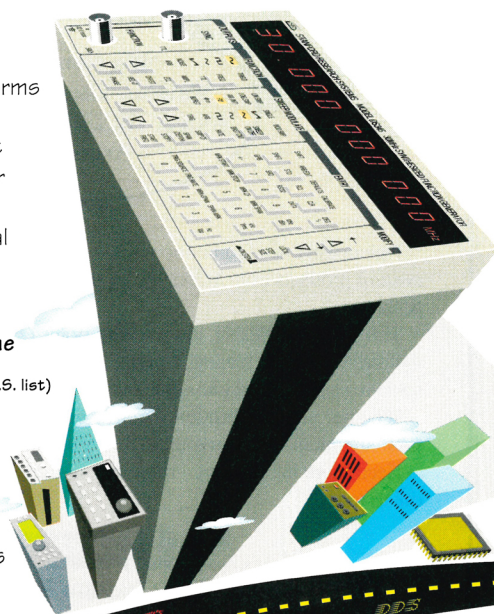
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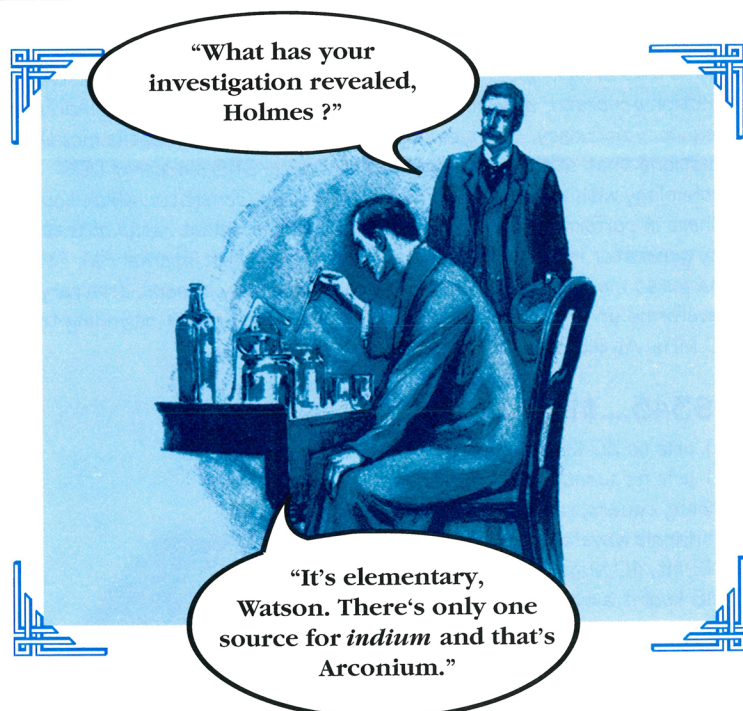
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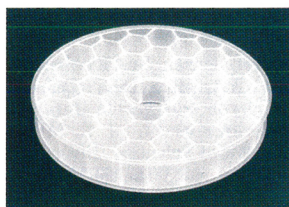
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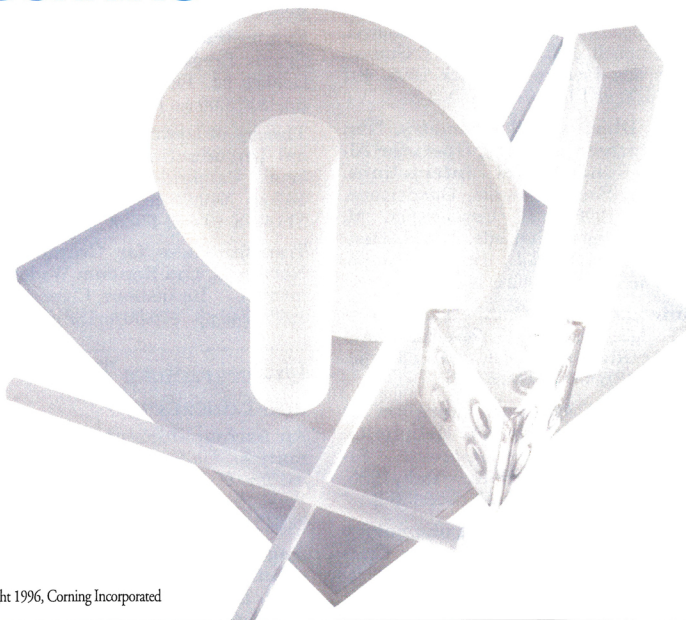
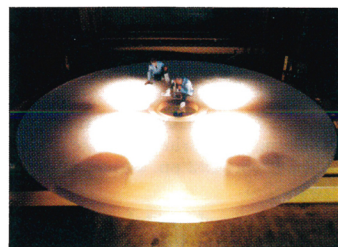
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Quantum Communications and Measurement. Proc. Wksp., Nottingham, UK, Jul. 1994. V. P. Belavkin, O. Hirota, R. L. Hudson. Plenum, New York, 1995. 532 pp. \$135.00 *hc* ISBN 0-306-45128-X

Quantum Group Symmetry and q-Tensor Algebras. L. C. Biedenharn, M. A. Lohe. World Scientific, River Edge, N.J., 1995. 293 pp. \$64.00 *hc* ISBN 981-02-2331-5

Recent Progress in Many-Body Theories, Volume 4. Proc. Conf., Liebnitz, Austria, Aug. 1994. E. Schachinger, H. Mitter, H. Sormann, eds. 477 pp. \$135.00 *hc* ISBN 0-306-45103-4

Singularly Perturbed Evolution Equations with Applications to Kinetic Theory. *Series on Advances in Mathematics for Applied Sciences* 34. J. R. Mika, J. Banasiak. World Scientific, River Edge, N.J., 1995. 310 pp. \$61.00 *hc* ISBN 981-02-2125-8

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Symmetries in Science VIII. Proc. Symp., Bregenz, Austria, Aug. 1994. B. Gruber, ed. Plenum, New York, 1995. 465 pp. \$125.00 *hc* ISBN 0-306-45119-0

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