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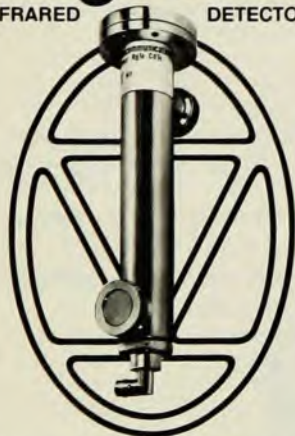
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The authors appear a little uncertain about their readership. For example, they define a topology, yet they use "homeomorphism" without explanation; there are several such inconsistencies. Some easy proofs are given and some hard ones omitted, without even outline indications, and there are a few minor errors. The book provides little account of the Russian and British work—to which I have contributed and about which I must therefore be prejudiced—even when I feel it to be essential to a balanced view. The section on mixing, for example, fails to mention the Russian contribution in this area. Thus I could not recommend this volume as a complete account of the subject.

In conclusion, then, this is a useful but disappointing book from two able workers.

M.A.H. MACCALLUM
*King's College, Cambridge
England*

new books

Nuclei, Nuclear Physics

Nuclear Structure, Vol. 2: Nuclear Deformations. A. Bohr, B. R. Mottelson. 748 pp. W. A. Benjamin, Reading, Mass., 1975. \$37.50

Nuclear Reactor Analysis. J. J. Duderstadt, L. J. Hamilton. 650 pp. Wiley, New York, 1976. \$23.95

Advances in Nuclear Physics, Vol. 8. M. Baranger, E. Vogt, eds. 383 pp. Plenum, New York, 1975. \$27.50

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Advances in Plasma Physics, Vol. 6. P. K. Kaw, W. L. Kruer, C. S. Liu, K. Nishikawa (A. Simon, W. B. Thompson, series eds.). 600 pp. Wiley, New York, 1976. \$35.00

Physics of the Hot Plasma in the Magnetosphere (Nobel Symposium No. 30, Kiruna, Sweden, April 1975). B. Hultqvist, L. Stenflo, eds. 369 pp. Plenum, New York, 1975. \$25.00

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Materials and Solid State

The Elementary Language of Solid State Physics. M. H. B. Stiddard. 188 pp. Academic, London, 1975. \$14.00

Introduction to Superconductivity (Int. Series in Solid State Physics, Vol. 6). A. C. Rose-Innes, E. H. Rhoderick. 228 pp. Pergamon, New York, 1976. \$13.20

Vacuum Ultraviolet Radiation Physics (Proc. of the 4th Int. Conf. on Vacuum Ultraviolet Radiation Physics, Hamburg, July 1974). E.-E. Koch, R. Haensel, C. Kunz, eds. 832 pp. Pergamon, Vieweg, Braunschweig, Germany, 1974.

Astronomy, Space Physics

Black Holes in Space. P. Moore, I. Nicolson. 126 pp. W. W. Norton, New York, 1976. \$7.95

Pulsating Stars. B. V. Kukarkin, ed. 320 pp. Halsted, New York, 1975. \$37.50

The Solar System (Articles from Scientific American, Sept. 1975). 145 pp. W. H. Freeman, San Francisco, 1975.

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Light Scattering in Planetary Atmospheres. V. V. Sobolev. 256 pp. Pergamon, New York, 1975. \$25.00

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A Short Course in Cloud Physics (Int. Series in Natural Philosophy, Vol. 84). R. R. Rogers. 227 pp. Pergamon, New York, 1976. \$14.50

Clouds, Rain and Rainmaking, 2nd edition. B. J. Mason. 189 pp. Cambridge U.P., New York, 1976. \$12.95

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The Wave Equation on a Curved Space-Time. F. G. Friedlander. 282 pp. Cambridge U.P., New York, 1976. \$39.50

Measurements and Time Reversal in Objective Quantum Theory (Int. Series in Natural Philosophy, Vol. 75). F. J. Belinfante. 142 pp. Pergamon, New York, 1975. \$10.00

Mathematical Cosmology and Extragalactic Astronomy. I. E. Segal. 204 pp. Academic, New York, 1976. \$22.50

Fluctuations, Instabilities, and Phase Transitions (Proc. of NATO Advanced Study Institute, Geilo, Norway, April 1975). T. Riste, ed. 389 pp. Plenum, New York, 1975. \$29.50

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The Measurement of Appearance. R. S. Hunter. 384 pp. Wiley, New York, 1975. \$19.50

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Applied Physics Letters, THE LASER JOURNAL

The following is the Table of Contents from a recent issue of APPLIED PHYSICS LETTERS:

Applied Physics Letters

Vol. 28, No. 6, 15 March 1976

295	Nonlinear acoustic microscopy	R. Kompfner, R.A. Lemons
297	Injection-stimulated dislocation motion in semiconductors	L.C. Kimerling, P. Petroff, H.J. Leamy
300	Rapid turn-off in triode optical gate liquid crystal devices	D.J. Channin, D.E. Carlson
303	Antenna properties and operation of metal-barrier-metal devices in the infrared and visible regions	Shyh Wang
306	Two-species flow in relativistic diodes near the critical field for magnetic insulation	Kenneth D. Bergeron
308	Conditions for the self-destruction of a pulsed intense relativistic electron beam	M. Friedman, J.G. Siambis, D.P. Bacon
312	Direct observations of defects in implanted and postannealed silicon wafers	L.D. Glowinski, K.N. Tu, P.S. Ho
314	The physical state of implanted tungsten in copper	A.G. Cullis, J.M. Poate, J.A. Borders
317	Accurate phase matching in sputtered birefringent Ta_2O_5 waveguides	J. Wei, S.J. Ingrey, W.D. Westwood, S. Kos
319	Two-photon spectroscopy using picosecond light continua	A. Penzkofer, W. Falkenstein, W. Kaiser
321	Electro-optic channel waveguide modulator for multimode fibers	A.R. Nelson, D.H. McMahon, R.L. Gravel
324	Experimental method of determining the intrinsic diffraction efficiency of holograms stored by the photorefractive effect	M.G. Moharam, W.D. Cornish, L. Young
326	Fast-discharge-initiated XeF laser	C.P. Wang, H. Mirels, D.G. Sutton, S.N. Suchard
328	Efficient high-power CH_3F amplifier for a $496\text{-}\mu\text{m}$ cavity laser	Z. Drozdowicz, R.J. Temkin, K.J. Button, D.R. Cohn
331	Unstable propagation of a Gaussian laser beam in a plasma waveguide	M.D. Feit, D.E. Maiden
333	Optical levitation in high vacuum	A. Ashkin, J.M. Dziedzic
336	Raman band contours for water vapor as a function of temperature	J.L. Briles, R. Gaudrès, M. Monan, M. Lapp, C.M. Penney
338	Nonlinear dynamic theory for photorefractive phase hologram formation	Dae M. Kim, Rajiv R. Shah, T.A. Rabson, F.K. Tittel
340	Radiation-induced effects in GaAs thin-film optical ($10.6\text{ }\mu\text{m}$) waveguides	S. Share, A.S. Epstein, T. Monse, W.S.C. Chang, M.S. Chang
342	Optically pumped $16\text{-}\mu\text{m}$ CO_2 laser	R.M. Osgood, Jr.
345	Ultraviolet emission from CO_2^+ produced in low-energy He^+CO_2 collisions	G.H. Bearman, H.H. Harris, J.J. Leventhal
348	Uniaxial stress effects on double injection diodes	T. Hayashi, S. Iida
350	Dielectric constant and its temperature dependence for GaAs, CdTe, and ZnSe	Ireneusz Strzalkowski, Sharad Joshi, C.R. Crowell
353	Superconducting weak-link current-phase relations	L.D. Jackel, J.M. Warlaumont, T.D. Clark, J.C. Brown, R.A. Buhrman, M.T. Levinson
355	Microfabrication of circuits for magnetic bubbles of diameter $1\text{ }\mu\text{m}$ and $2\text{ }\mu\text{m}$	R.K. Watts, H.M. Darley, J.B. Kruger, T.G. Blocker, D.C. Guterman, J.T. Carlo, D.C. Bullock, M.S. Shaikh
357	γ -ray spectra detected with HgI_2 at room temperature	W. Puschart, H. Scholz
360	CUMULATIVE AUTHOR INDEX	

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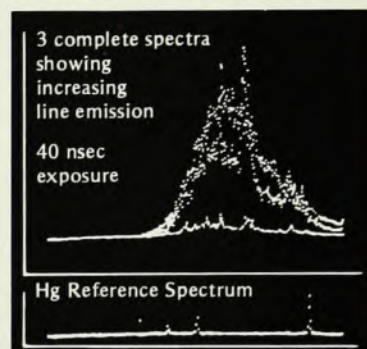
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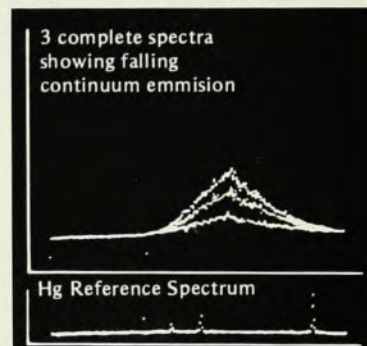
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ciples and Methods, Vol. 4.** M. A. Hayat,
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