

is more on the theoretical than the experimental side. It is neither pure theory, nor pure experiment, but in a rather concise way limits itself to the background of a number of approximate models used in the interpretation of luminescent phenomena. This background is more often theoretical, but not always. The models used represent the present state of knowledge and can be helpful to the advanced research worker as well as the student interested in the field.

Even the best book can be criticized and this isn't without its shortcomings either. The greatest shortcoming, as far as I see, is the lack of an index. If there is a second edition or a translation,

I would like to recommend very warmly the addition of an index.

The second shortcoming is the parsimony of the references. I don't mean to say that there are no references at all. There are a few, but they aren't enough for the graduate student who really wishes to obtain a good knowledge of the subject. Many more references would be useful.

One more remark. I wouldn't like to list this last one as a shortcoming of the book. I am rather inclined to be amused by it. The current wave of nationalism in science doesn't leave this book without its mark. Wherever possible, the French scientist and French science is extolled. The most

characteristic indication is the use of two names hyphenated. For instance, the Cerenkov effect becomes the Mallet-Cerenkov effect. The author speaks of Becquerel-Lenard phosphorescence and a number of similar examples can be given where always the French one precedes the foreign name. This is not very important—in fact, it may help to make the American student aware of the role of French science in developing some of these areas.

The book is paperbound, with excellent typography and very good figures.

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NEW BOOKS

ELEMENTARY PARTICLES & FIELDS

Mathematical Theory of Elementary Particles. Conf. proc. (Dedham, Mass., Sept. 1965). R. Goodman, I. Segal, eds. 188 pp. MIT Press, Cambridge, Mass., 1966. \$6.00

Cosmic Ray Physics. Two volumes. Conf. proc. (Apatity, USSR, Aug. 1964) Trans. of Bull. Acad. Sci. USSR 29, no. 9, no. 10. Columbia Technical Translations, White Plains, N. Y., 1965. Each \$25.00

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Annual Review of Nuclear Science, 1966. Vol. 16. E. Segrè, ed. 671 pp. Annual Reviews, Palo Alto, Calif., 1966. \$8.50

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Delcroix. 203 pp. Dunod, Paris, 1966. 25 F.

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