

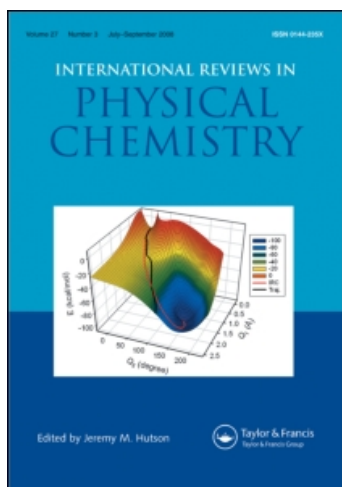
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International Reviews in Physical Chemistry

Publication details, including instructions for authors and subscription information:

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To cite this Article (1982) 'Other Books Received', *International Reviews in Physical Chemistry*, 2: 1, 100

To link to this Article: DOI: 10.1080/01442358209353330

URL: <http://dx.doi.org/10.1080/01442358209353330>

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Feynman diagrams correlations are represented in terms of energy level diagrams and often illustrated by real space diagrams. It provides a useful account of the interrelationship between the various Coster-Kronig, Auger, shake-up, shake-off and configuration interaction processes in terms of which the spectra are usually discussed.

Following the interpretation of the XPS spectra of atomic systems given in the first half of the book, the treatment is extended in later chapters to simple molecules and solids including adsorbate systems. It is shown that satellite structure for such systems can be explained in a somewhat similar manner. In view of the present widespread activity in the field of photoelectron and synchrotron UV spectroscopy, this review of related theory has appeared at a most opportune moment.

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OTHER BOOKS RECEIVED

Ilya Prigogine. *From Being to Becoming: Time and Complexity in the Physical Sciences*. London: W. H. Freeman and Company, 1980. 272 pp. £13.50 (hardback), ISBN 0 7167 1107 9. £6.30 (paperback), ISBN 0 7167 1108 7.