

there is a short section devoted to computer interfacing and spectrometer control. The discussion of microwave diode noise has not been revised in spite of the significant advances in diode design and performance during the past 25 years.

The 13 chapters are ordered so that the student is introduced tutorially first to simple and then to successively more complex EPR concepts and spectral interpretation problems. The first edition's well-chosen problems at the end

of each chapter have been augmented by new problems that challenge the student as well as provide an exposure to topics not discussed in the chapter. References to the literature enhance this approach. Sections 6.6 and 6.7 contain material concerning spin Hamiltonians and espouse an approach and formalism developed by Weil and his coworkers. (The authors should have discussed this material in a way that reflects contemporary mores and is not idiosyncratic.) Chapter 13 is

in reality another appendix, being a topic-organized bibliography. Overall, the text is remarkably free of typographic or other errors, although figure 1.3(a) repeats a serious error of the first edition: The directional coupler is reversed.

The above criticisms are minor compared to the strengths of this new edition of an already classic text. I am confident that it will prove to be a worthy successor, and I concur with the authors in believing that EPR spectra provide "a very clear insight into many of the fundamental concepts of quantum mechanics." Consequently, I hope that a broader spectrum of chemistry and physics students will be exposed to this subject via this excellent introductory text.

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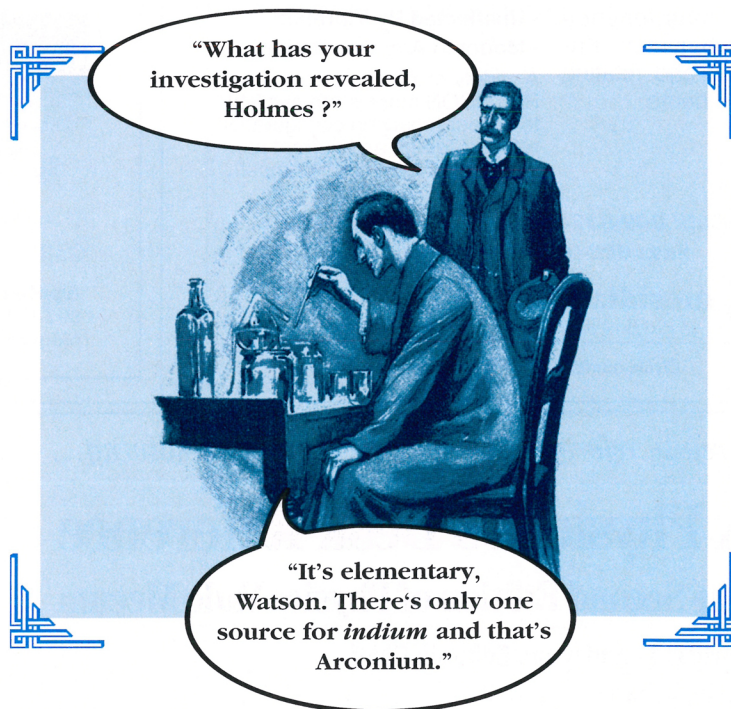
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