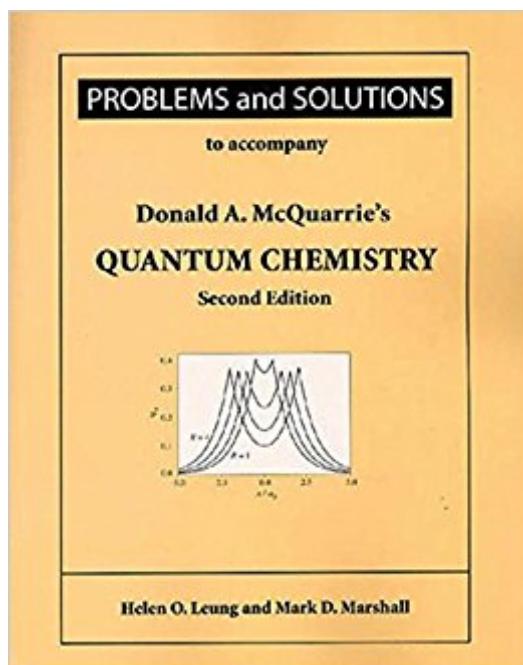


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Problems And Solutions For Mcquarrie's Quantum Chemistry



Synopsis

This Solutions Manual accompanies the second edition of Donald McQuarrie's Quantum Chemistry. It contains each of the more than 700 problems in the text, followed by a detailed solution. Written by chemistry faculty members Helen O. Leung and Mark D. Marshall, both of Amherst College, in conjunction with Prof. McQuarrie, each solution combines the clarity the authors use in teaching the same material in their own classrooms with the rigor appropriate to learning and appreciating an introduction to quantum chemistry. Both Helen Leung and Mark Marshall are recipients of the Henry Dreyfus Teacher-Scholar Award. They bring to the manual the insight gained from years of using quantum mechanics as spectroscopists with active research programs along with strong, effective pedagogy.

Book Information

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Customer Reviews

Mark D. Marshall and Helen O. Leung are faculty members in the chemistry department at Amherst College with over 30 years of combined experience teaching physical chemistry to undergraduates. They maintain active research programs in high resolution molecular spectroscopy of weakly bound species and reactant complexes and have appeared as authors on 50 scientific papers. They are both recent recipients of the Henry Dreyfus Teacher-Scholar Award and both received the John F. Burlew Award of the Connecticut Valley Section of the American Chemical Society for outstanding contributions to chemistry in their formative years. According to their students, they bring infectious enthusiasm and encouragement to the classroom and make you think about the big picture.

If you are taking physical/quantum chemistry and use McQuarrie's book, this is a must-have. After buying so many solutions manuals, it's nice when they come with ALL of the answers, and not just "selected" answers or odd/even answers. Additionally, this book tends to show ALL of the steps (at least assuming you have at least a minimal level of competence) required to solve the problems, and includes clearly worded explanations when required. Though a class in physical/quantum chemistry may only be a 1-star (if you're not planning on continuing into it for specialization), this solutions manual definitely deserves 5-stars.

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This book is handy when you have tons of homework to finish in a small amount of time, and you just want to get the answers down and learn the material later. I know, not the best way to study, but everyone's different. I don't recommend this book for studying, only for getting the final answer. The explanation of the answers is hit or miss. Some will tell you most steps of the process, but the majority of them skip several steps and don't tell you how they arrived at their result. It's frustrating because McQuarrie's text is difficult to understand sometimes and I wish I'd had a second explanation of the material.

Great help for solving book problems.

Very helpful.....

Helped me learn the material.

For the most part helpful, but leaves some critical derivations out for the reader to work through. If anything, a good source of study material, but not a great solutions manual.

Detailed, answers every question in at the end of each chapter. Very helpful. I did not give it five stars because it there are some questions that leave unanswered questions. But for the most part this is a great study helper.

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