

Solutions Manual to  
Quantum Mechanics: Concepts and Applications

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# Preface

The solutions in this document pertain to the second edition of my book: *Quantum Mechanics: Concepts and Applications* (Chichester: John-Wiley, 2009; ISBN: 978-0-470-02678-6 (Hardcover), 978-0-470-02679-3 (Paperback)). I have culled the exercises of this Solutions Manual from a rich collection of homework problems and exams I have been assigning to my students while teaching the subject for many years at both the undergraduate and graduate levels. There are about 360 exercises in this manual. Needless to underscore the fact that these exercises have been classroom tested for a number of years now.

These solutions have resulted from a set of hand-written notes I have prepared over the years. Two people have worked tirelessly to type most of them for me (the rest of the solutions, I have typed them myself): My former student, Kristen Williams, has typed chapters 1 through 5 (she has written some of the solutions on her own); and Dr. Mevlut Bulut has typed some parts of chapters 6 through 11 (he has also written some of the solutions on his own). To them, I offer my deep sense of appreciation and gratitude for their efficient hard work. Additionally, I would like to thank in particular Prof. Richard Lebed (Arizona State University) who has offered me a number of valuable comments and pointed out some mistakes in these solutions prior to their publication; several of his own solutions were used in chapters 1 and 2.

I have made every effort to insure that these solutions are complete, clear and error-free; yet I don't discount the possibility that some typos and/or mistakes have evaded detection. I would certainly encourage, rather appreciate, anyone who will be using this manual to contact me (nzettili@jsu.edu) whenever a typo and/or an error is encountered. I would like to thank in advance those courteous users who will be taking the time and care to contact me.

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