

ACKNOWLEDGMENT

It is my pleasure to express my gratitude to a large number of people without whom this edition would be impossible.

First of all I thank my parents, who gave me the courage to get my education and supported me in all endeavors. My father, Dr. Matest Agrest, has always been and is now an example to follow as a scientist and an educator. My mother, Mrs. Riva Agrest, was my first English teacher in our past life in Russia many years before we could immigrate to the US. I also thank my siblings Raisa, Emmanuil, and Alex, who made substantial contributions to teaching in their lives and always encouraged me to succeed in achieving high goals.

I am grateful to my children, Arkady and Inga, who experienced my teaching method and have exciting memories about this experience. I had the pleasure of teaching physics at the college level to Inga, who took my side in numerous discussions of my method with my friends and colleagues, such as Dr. Alex Pecheny of Johnson and Wales University.

I also thank my wife, Marina Agrest, who made sacrifices in her piano performance career to give me the opportunity to work on this book.

Another person who greatly influenced my life and career is my professor at the St. Petersburg State University, St. Petersburg, Russia, Dr. M. Z. Solomiak, now professor of Weizmann Institute, Rehovot, Israel. I was in his class when the thought of such an edition came to my mind.

I am very grateful to my College of Charleston Physics and Astronomy Department colleagues, the family, which accepted me in 1993. I express my gratitude to all College of Charleston faculty and staff with whom I have had the good fortune to interact, particularly to the CETL Board of Directors who awarded me a grant to support my work on the initial version of this book, and the administration, which awarded me with a Sabbatical leave to continue this project.

The list of names would take pages; nevertheless I feel the need to mention some names and the first is Dr. Dukes, who was the Department Chair for most of my years at the College of Charleston. Dr. Dukes was the first to believe in my ability and willingness to be a good teacher at the College. He taught me a great deal not just in terms of our profession, but also about the American life style and interaction with colleagues and student-professor relations. This helped me to find better approaches to the needs of students at an American Liberal Arts College.

I worked together in Labs with Dr. L. Mills, Dr. J. Halford, and Dr. F. Watts, and attended with pleasure some lectures of my colleagues – Dr. D. Hall, Dr. L. Mills, Dr. F. Watts, from whom I learned a great deal.

I often have long discussions –“ Informal Teaching Seminars” with the colleagues mentioned above as well as Dr. B. Kubinec, Dr. J. Wragg, Dr. L. Lindner, Dr. L. Jones, Dr. J. Neff, Dr. N. Preyer, James Frysinger and Terry Richardson.

My special thanks go to Al Rainis and to my wife Marina Agrest for their patience while helping me with the photographs used in this edition.

I extend my gratitude to my colleagues at the Physics and Astronomy Department of the College of Charleston: Professor James Frysinger, Dr. Jake Halford, Dr. Fred Watts were my first followers and started using my *Lectures on Introductory Physics*, or *Lectures on General Physics* in their classes.

My special thanks to our new Chair of the Physics and Astronomy Department, Dr. Jon Hakkila, who has impressed me with his experience and open mindedness, for the strong spiritual support.

I am also very grateful to Dr. E. R Jones of the University of South Carolina, Columbia, SC the author of *Contemporary College Physics* – the textbook I had the pleasure to use in classes I taught - and Dr. J. Safko of USC, who supported my idea of this edition.

Dr. Saul Adelman and Dr. Pat Briggs of The Citadel have brought some very important suggestions to my attention. Great thanks to Dr. Pat Briggs for using the book for his class at The Citadel and Dr. Peter Rembiesa, the chair of the Physics Department at The Citadel for his support.

I am very grateful to Dr. Paul Hewitt and Dr. Ray Serway for their attention to my work and I am very proud that these two great Physics textbook authors recognized value in my approach to teaching Physics.

I am very grateful to Ann Weatherby, my neighbor, who generously helped me with the texts by gently correcting while respecting and not killing my personal individuality in stylistics.

The last, but not least, is my gratitude to all students to whom I have taught and will teach Physics. It takes both, a Sun and the Rain to make a Rainbow. It takes both, a Teacher and a Student to make a School.

Parents can sometimes see and appreciate results of their children’s learning right away.

It was a comment by a parent who watched me teaching her daughter that made me choose teaching as my profession.

You, my dear students, especially students of the College of Charleston, inspired me to compile this edition. You were, are and will be my co-authors: I always intend to find ways to approach you, to find ways to better explain the fundamentals of Physics, and ways to help you remember these fundamentals as well as some important details.

This is possible because of the wonderful interaction process we have in class: you always trigger my ideas.

Mikhail M. Agrest
Charleston, SC
August 19, 2001
March 19, 2004.