



Classical Mechanics: Dynamics (Advances in Mechanics and Mathematics)

By Jan Awrejcewicz



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This is the second volume of three books devoted to Mechanics. In this book, dynamical and advanced mechanics problems are stated, illustrated, and discussed, including a few novel concepts in comparison to standard text books and monographs. Apart from being addressed to a wide spectrum of graduate students, postgraduate students, researchers, and teachers from the fields of mechanical and civil engineering, this volume is also intended to be used as a self-contained material for applied mathematicians and physical scientists and researchers.

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Review

From the reviews:

“The book contains formulations, illustrations and discussions of dynamical and advanced mechanical problems. It is addressed to graduate and postgraduate students, and to researchers from mechanical and civil engineering and mechatronics. ... the book by Awrejcewicz is a valuable addition to the literature on the subject, and I highly recommend it for the courses on advanced dynamics for engineering students.” (Teodor Atanackovic, *zbMATH*, Vol. 1270, 2013)

From the Back Cover

This is the second volume of three books, by the same author, devoted to classical mechanics. In this book, *Classical Mechanics: Dynamics*, dynamical and advanced mechanics problems are stated, illustrated, and discussed, including a few novel concepts by comparison to standard text books and monographs. Aside from being addressed to a wide spectrum of graduate students, postgraduate students, researchers, and instructors, from the fields of mechanical and civil engineering, this volume, which includes a wealth of worked examples and applications, is also intended to be used as a self-contained reference for researchers in applied mathematics and physical sciences.

Chapter 1 covers dynamics of a particle and systems of particles, as well as rigid body motion about a point. Mathematical and physical pendulums are discussed in Chapter 2, and Chapter 3 presents static and dynamic problems of discrete mechanical systems. Classical equations of mechanics are studied in Chapter 4, and Chapter 5 introduces and illustrates classical impact theory. Chapter 6 deals with the vibrations of mechanical systems, and Chapter 7 briefly studies the dynamics of planets. Dynamics of variable mass systems are presented in Chapter 8, and body and multibody dynamics are studied in Chapter 9. A geometric approach to dynamical problems is the focus of Chapter 10, and Chapter 11 ends the text with geometric dynamics.

About the Author

Jan Awrejcewicz is the 2011 winner of the Humboldt Prize. This award is granted from the Alexander von Humboldt Foundation in Germany and is based on a researcher's entire achievements to date, whose fundamental discoveries, new theories or insights have had significant impact on their own discipline and who are expected to continue producing cutting-edge achievements in the future. Prof. Awrejcewicz is also the main author of “Nonsmooth Dynamics of Contacting Thermoelastic Bodies”, © 2009, Springer (AMMA v. 16), 978-0-387-09562-0. He is also the sole editor of “Modeling, Simulation and Control of Nonlinear Engineering Dynamical Systems”, © 2009 Springer, 978-1-4020-8777-6.

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