Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics)

By Alfredo M. Ozorio de Almeida

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida

This introduction to the theory of Hamiltonian chaos outlines the main results in the field, and goes on to consider implications for quantum mechanics. The study of nonlinear dynamics, and in particular of chaotic systems, is one of the fastest growing and most productive areas in physics and applied mathematics. In its first six chapters, this timely book introduces the theory of classical Hamiltonian systems. The aim is not to be comprehensive but, rather, to provide a mathematical trunk from which the reader will be able to branch out. The main focus is on periodic orbits and their neighbourhood, as this approach is especially suitable as an introduction to the implications of the theory of chaos in quantum mechanics, which are discussed in the last three chapters.

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics)

By Alfredo M. Ozorio de Almeida

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics)
By Alfredo M. Ozorio de Almeida

This introduction to the theory of Hamiltonian chaos outlines the main results in the field, and goes on to consider implications for quantum mechanics. The study of nonlinear dynamics, and in particular of chaotic systems, is one of the fastest growing and most productive areas in physics and applied mathematics. In its first six chapters, this timely book introduces the theory of classical Hamiltonian systems. The aim is not to be comprehensive but, rather, to provide a mathematical trunk from which the reader will be able to branch out. The main focus is on periodic orbits and their neighbourhood, as this approach is especially suitable as an introduction to the implications of the theory of chaos in quantum mechanics, which are discussed in the last three chapters.

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida Bibliography

- Sales Rank: #10070380 in Books
- Published on: 1989-02-24
- Original language: English
- Number of items: 2
- Dimensions: 8.98" h x .63" w x 5.98" l,
- Binding: Hardcover
- 256 pages

⬇ **Download** Hamiltonian Systems: Chaos and Quantization (Cambr ...pdf

🗎 **Read Online** Hamiltonian Systems: Chaos and Quantization (Cam ...pdf

Editorial Review

Review
"...successfully gives a concise treatment of well-chosen key elements of the field that are suitable for an upper-level graduate physics course." Science

"...a well-written introduction to classical and quantum Hamiltonian dynamics..." Mathematical Reviews

"...a fine introduction to its subject matter, for both graduate students and researchers young or old." SIAM Review

Language Notes
Text: English, Portugese (translation)

From the Back Cover
This text introduces the theory of Hamiltonian chaos, outlines the main results in the field, and goes on to consider implications for quantum mechanics.

The study of nonlinear dynamics, and in particular of chaotic systems, is one of the fastest growing and productive areas in physics and applied mathematics. In its first six chapters, this timely book introduces the theory of classical Hamiltonian systems. The aim is not to be comprehensive, but rather to provide a starting point for further investigation. The main focus is on periodic orbits and their neighborhood, since this approach is an especially suitable introduction to the implications of the theory of chaos in quantum mechanics discussed in the last three chapters.

The book will be valuable to all researchers and graduate students in physics or applied mathematics interested in Hamiltonian chaos and its implications for quantum theory.

Users Review

From reader reviews:

Emile Guzman:

What do you think about book? It is just for students since they're still students or the item for all people in the world, what the best subject for that? Simply you can be answered for that issue above. Every person has various personality and hobby per other. Don't to be forced someone or something that they don't want do that. You must know how great along with important the book Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics). All type of book can you see on many resources. You can look for the internet options or other social media.

Juan Reynolds:

Book is to be different for every grade. Book for children until eventually adult are different content. As it is known to us that book is very important normally. The book Hamiltonian Systems: Chaos and Quantization

(Cambridge Monographs on Mathematical Physics) was making you to know about other knowledge and of course you can take more information. It is very advantages for you. The e-book Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) is not only giving you considerably more new information but also for being your friend when you sense bored. You can spend your own personal spend time to read your guide. Try to make relationship with all the book Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics). You never sense lose out for everything should you read some books.

Michael Carr:

Beside this Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) in your phone, it may give you a way to get closer to the new knowledge or data. The information and the knowledge you will got here is fresh from your oven so don't always be worry if you feel like an previous people live in narrow small town. It is good thing to have Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) because this book offers to you readable information. Do you often have book but you seldom get what it's exactly about. Oh come on, that would not happen if you have this with your hand. The Enjoyable set up here cannot be questionable, just like treasuring beautiful island. Use you still want to miss the idea? Find this book and read it from at this point!

Cleta Blackwell:

Guide is one of source of knowledge. We can add our knowledge from it. Not only for students but also native or citizen have to have book to know the update information of year to be able to year. As we know those publications have many advantages. Beside all of us add our knowledge, may also bring us to around the world. Through the book Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) we can take more advantage. Don't you to definitely be creative people? For being creative person must choose to read a book. Just simply choose the best book that acceptable with your aim. Don't become doubt to change your life at this time book Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics). You can more desirable than now.

Download and Read Online Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida #36BWT2GEPZ9

Read Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida for online ebook

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida books to read online.

Online Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida ebook PDF download

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida Doc

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida Mobipocket

Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida EPub

36BWT2GEPZ9: Hamiltonian Systems: Chaos and Quantization (Cambridge Monographs on Mathematical Physics) By Alfredo M. Ozorio de Almeida