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| Autore | Timberlake Todd Keene |
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| Soggetti | Physics Mathematical physics Mechanics Algebra Computer mathematics Mathematical Methods in Physics Mathematical Applications in the Physical Sciences Classical Mechanics General Algebraic Systems Computational Mathematics and Numerical Analysis |
| Lingua di pubblicazione | Inglese |
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| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | Introduction to Maxima -- Numerical Methods -- Newton's Laws of Motion -- Dynamics of Single Particles -- Oscillators -- Nonlinear Mechanics and Chaos. |
| Sommario/riassunto | This book guides undergraduate students in the use of Maxima—a computer algebra system—in solving problems in classical mechanics. It functions well as a supplement to a typical classical mechanics textbook. When it comes to problems that are too difficult to solve by hand, computer algebra systems that can perform symbolic mathematical manipulations are a valuable tool. Maxima is particularly attractive in that it is open-source, multiple-platform software that students can download and install free of charge. Lessons learned and capabilities developed using Maxima are easily transferred to other, proprietary software. |

