



Classical Mechanics with Maxima (Undergraduate Lecture Notes in Physics)

By Todd Keene Timberlake, J. Wilson Mixon



Classical Mechanics with Maxima (Undergraduate Lecture Notes in Physics)

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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.

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From the Back Cover

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About the Author

Todd Keene Timberlake is a Professor of Physics & Astronomy at Berry College in Mount Berry, GA. He received his Ph.D. in Physics from the University of Texas at Austin in 2001. He has published several articles on using computers to teach physics and astronomy in the *American Journal of Physics* and *The Physics Teacher*.

J. Wilson Mixon is Dana Professor of Economics Emeritus at Berry college. Over 70 of his articles have appeared in refereed economics journals. They continue to be downloaded in significant numbers. He maintains a web site that contains a large amount of *Excel*-based analysis of economic principles. In the past three years, over 27,000 have visited the site.

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