



# Mathematical Principles of Mechanics and Electromagnetism

By Wang, Chao-cheng

Book Condition: New. Publisher/Verlag: Springer, Berlin | Part A: Analytical and Continuum Mechanics | of Part A.- 1.

Lagrangian Mechanics of Particles and Rigid Bodies.- Section 1. Kinematics of Systems of Particles.- Section 2. Kinematics of a Rigid Body.- Section 3. Kinematics of Holonomic Systems of Particles and Rigid Bodies.- Section 4. Dynamical Principles for Particles and Rigid Bodies.- Section 5. Lagrange's Equations for Constrained Systems.- Section 6. Explicit Forms of Lagrange's Equations.- 2. Hamiltonian Systems in Phase Space.- Section 7. Hamilton's Principle.- Section 8. Phase Space and Its Canonical Differential Forms.- Section 9. The Legendre Transformation and the Hamiltonian System I: The Time-Independent Case.- Section 10. The Legendre Transformation and the Hamiltonian System II: The Time-Dependent Case.- Section 11. Contact Transformations and the Hamilton-Jacobi Equation.- Section 12. The Hamilton-Jacobi Theory.- Section 13. Huygens Principle for the Hamilton-Jacobi Equation 72 Appendix. Characteristics of a First-Order Partial Differential Equation.- 3. Basic Principles of Continuum Mechanics.- Section 14. Deformations and Motions.- Section 15. Balance Principles.- Section 16. Cauchy's Postulate and the Stress Principle.- Section 17. Field Equations.- Section 18. Constitutive Equations.- Section 19. Some Representation Theorems.- Section 20. The Energy Principle for Hyperelastic Materials.- Section 21. Internal Constraints.-...

**DOWNLOAD**



 **READ ONLINE**

## Reviews

*A must buy book if you need to add benefit. It really is packed with wisdom and knowledge I found out this book from my dad and I encouraged this pdf to understand.*

-- **Mr. Bennie Hirthe**

*Most of these publications is the perfect publication offered. It is amongst the most incredible book we have read through. You can expect to like just how the writer write this pdf.*

-- **Theresa Bartell DVM**

## See Also

---



### [Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer \(Paperback\)](#)

Createspace, United States, 2015. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Children s Handwriting Book of Alphabets and Numbers provides extensive focus on alphabet tracing and number tracing for the...



### [Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions, for the Use of Mothers and Teachers \(Paperback\)](#)

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original...



### [Would It Kill You to Stop Doing That?](#)

Book Condition: New. Publisher/Verlag: Little, Brown Book Group | A Modern Guide to Manners | A laugh-out-loud guide to modern manners by acclaimed humorist, author, and Vanity Fair columnist Henry Alford. | A few years ago, humorist and journalist Henry Alford found...



### [Violet Rose and the Surprise Party](#)

Book Condition: New. Publisher/Verlag: Nosy Crow | With activities, 3D press-out models and over 175 stickers! Plus free games and printables online! | When busy rabbit, Violet Rose, discovers that her friend Lily has a birthday coming up, she and her buddies...



### [Flights of Angels: Stories](#)

Little, Brown and Company. Hardcover. Book Condition: New. 0316314862 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE...



### [Adventures in the Alaskan skin trade](#)

Simon and Schuster. Hardcover. Book Condition: New. 0671473042 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE tracking!!...