

Hamiltonian Formulation 3. Definition

○ ... a Legendre transform!

○ Define the *Hamiltonian*, H

$$\begin{aligned} H(\mathbf{q}, \mathbf{p}) &= - \left[L(\mathbf{q}, \dot{\mathbf{q}}) - \sum p_j \dot{q}_j \right] \\ &= -K(\mathbf{q}, \dot{\mathbf{q}}) + U(\mathbf{q}) + \sum \frac{\partial K}{\partial \dot{q}_j} \dot{q}_j \\ &= -\sum a_j \dot{q}_j^2 + U(\mathbf{q}) + \sum (2a_j \dot{q}_j) \dot{q}_j \\ &= +\sum a_j \dot{q}_j^2 + U(\mathbf{q}) \\ &= K + U \end{aligned}$$

○ H equals the total energy (kinetic plus potential)

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N Noddings



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Advanced Applications of Fractional Differential Operators to Science and Technology Matouk, Ahmed Ezzat, 2020-04-24
Fractional order calculus dates to the 19th century but has been resurrected as a prevalent research subject due to its provision of more adequate and realistic descriptions of physical aspects within the science and engineering fields. What was once a classical form of mathematics is currently being reintroduced as a new modeling technique that engineers and scientists are finding modern uses for. There is a need for research on all facets of these fractional order systems and studies of its potential applications. Advanced Applications of Fractional Differential Operators to Science and Technology provides emerging research exploring the theoretical and practical aspects of novel fractional modeling and related dynamical behaviors as well as its applications within the fields of physical sciences and engineering. Featuring coverage on a broad range of topics such as chaotic dynamics, ecological models, and bifurcation control, this book is ideally designed for engineering professionals, mathematicians, physicists, analysts, researchers, educators, and students seeking current research on fractional calculus and other applied mathematical modeling techniques. Nuclear Science Abstracts, 1975-04

Contributions from Institute for Nonlinear Science, University of California, San Diego, 1988 **Energy Research Abstracts**, 1986 **Physics Briefs**, 1993 **Indian Science Abstracts**, 2004-07 Physics Letters, 2001
General physics, atomic physics, molecular physics, and solid state physics **INIS Atomindex**, 1988 **Boston Studies in the Philosophy of Science**, 2001 *Bulletin Rensselaer Polytechnic Institute*, 1959 Includes its Catalogue **Energy Research Abstracts**, 1986 *The Journal of the Engineering Institute of Canada*, Engineering Institute of Canada, 1950
Mathematical Reviews, 1979 Physical Review, 2000-10 Publishes papers that report results of research in statistical physics, plasmas, fluids, and related interdisciplinary topics. There are sections on: 1. methods of statistical physics; 2. classical fluids; 3. liquid crystals; 4. diffusion limited aggregation and dendritic growth; 5. biological physics; 6. plasma physics; 7. physics of beams; 8. classical physics including nonlinear media; and 9. computational physics. **Canadian Journal of Physics**, 2015
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