Mathematics for Classical Mechanics

Become an expert in the most intricately complex body of ideas and methods ever to have been clubbed together for a common purpose. Gain insights into little-discussed yet fundamental notions such as the foundational role of parameterisation and the relation between variational calculus and basic vector algebra.

Outline of Syllabus.

Parameterisation

Differential equations

Differential Exactness and curl

Vector calculus

Scalar fields; potential theory

Fourier analysis

Functionals and Variation Hamiltonian and Lagrangian formulations

Computational methods

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