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#### Analytical mechanics Wikipedia

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Holmes: Poincar, celestial mechanics, dynamical-systems theory and chaos, Physics Reports 193, 137 163 (1990). MathSciNet ADS CrossRef Google Scholar

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#### Analytical dynamics Wikipedia

In classical mechanics, analytical dynamics, or more briefly dynamics, is concerned with the relationship between motion of bodies and its causes, namely the forces acting on the bodies and the properties of the bodies, particularly mass and moment of inertia. The foundation of modern-day dynamics is Newtonian mechanics and its reformulation as Lagrangian mechanics and Hamiltonian mechanics.

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#### Mathematical physics Wikipedia

The theory of partial differential equations (and the related areas of variational calculus, Fourier analysis, potential theory, and vector analysis) are perhaps most closely associated with mathematical physics. These were developed intensively from the second half of the 18th century (by, for example, D'Alembert, Euler, and Lagrange) until the 1930s.

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