

CHAPTER OVERVIEW

10: A Bit More of Analytical Mechanics

This concluding chapter reviews two alternative approaches to analytical mechanics, whose major value is a closer parallel to quantum mechanics in general and its quasiclassical (WKB) approximation in particular. One of them, the Hamiltonian formalism, is also convenient for the derivation of an important asymptotic result, the adiabatic invariance, for classical systems with slowly changing parameters.

[10.1: Hamilton Equations](#)

[10.2: Adiabatic Invariance](#)

[10.3: The Hamilton Principle](#)

[10.4: The Hamilton-Jacobi Equation](#)

[10.5: Exercise Problems](#)

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