

# Taylor Classical Mechanics Solutions Ch 4

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this volume presents various aspects of the geometry of symplectic and poisson manifolds and applications in hamiltonian mechanics and geometric quantization are indicated chapter 1 presents some general facts about symplectic vector space symplectic manifolds and symplectic reduction chapter 2 deals with the study of hamiltonian mechanics chapter 3 considers some standard facts concerning lie groups and algebras which lead to the theory of momentum mappings and the marsden weinstein reduction chapters 4 and 5 consider the theory and the stability of equilibrium solutions of hamilton poisson mechanical systems chapters 6 and 7 are devoted to the theory of geometric quantization this leads in chapter 8 to topics such as foliated cohomology the theory of the dolbeault kostant complex and their applications a discussion of the relation between geometric quantization and the marsden weinstein reduction is presented in chapter 9 the final chapter considers extending the theory of geometric quantization to poisson manifolds via the theory of symplectic groupoids each

chapter concludes with problems and solutions many of which present significant applications and in some cases major theorems for graduate students and researchers whose interests and work involve symplectic geometry and hamiltonian mechanics

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