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Volume 43, Number 1, Pages 43-73 S 0273-0979(05)01085-2 Article electronically published on November 22, 2005 NEW METHODS IN CELESTIAL MECHANICS AND MISSION DESIGN JERROLD E MARSDEN AND SHANE D ROSS To Henri Poincaré on the 150th anniversary of his birth  
Abstract The title of this paper is inspired by the work of Poincaré [1890,

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CHAPTER 14 HAMILTONIAN MECHANICS 141 Introduction The hamiltonian equations of motion are of deep theoretical interest Having established that, I am bound to say that I have not been able to think of a problem in classical mechanics that I can solve more easily by hamiltonian methods than by newtonian or lagrangian methods

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of approximate integration methods expounded in Chapter 6 Chapter 2 is devoted to classical problems of celestial mechanics It contains a description of the integrable two-body problem, the classification of final motions in the three-body problem, an analysis of collisions and regularization questions in

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