ERRATA - INTRODUCTION TO HAMILTONIAN DYNAMICAL SYSTEMS AND THE N-BODY PROBLEM, 2^{nd} EDITION

K. R. MEYER, G. R. HALL AND D. OFFIN

Please send additional corrections to Ken Meyer, Department of Mathematics, University of Cincinnati, Cincinnati OH 45221-0025 or KEN.MEYER@UC.EDU.

- Pg 50, Ln 9: Change $\mathbb{R}^{2n}$ to $\mathbb{R}$.
- Pg 79, Eq (4.3): In row 3, column 4 change 0 to 1.
- Pg 81, Ln -4: $2H_\epsilon = (x_1^2 + y_1^2) - (x_2^2 + y_2^2) + 2\epsilon y_1 y_2$.
- Pg 136, Ln -12: Add: X satisfies $X^T(t,\tau,\zeta)JX(t,\tau,\zeta) = J$ Differentiate this with respect to t (first argument) and set $t = \tau$ so $\dot{X}^T(\tau,\tau,\zeta)J + J\dot{X}(\tau,\tau,\zeta) = 0$ so $\dot{X}(\tau,\tau,\zeta)$ is Hamiltonian.

  X also satisfies $\dot{X}(t,\tau,\zeta) = f_z(t,\phi(t,\tau,\zeta))X(t,\tau,\zeta)$ Set $t = \tau$ to get $\dot{X}(\tau,\tau,\zeta) = f_z(\tau,\zeta)$ So $f_z(\tau,\zeta)$ is Hamiltonian, and the rest follows as in the book.
- Pg 151, Ln -11: Change $i \geq j$ to $i \geq |j|$.
- Pg 272, Ln 11: "Elementary Fixed Points" should be a subsection title.
- Pg 292, Ln 5: Sections 10.4 and 10.5.

Date: April 5, 2011.