## Errata for Calculus III, Second Edition Version: June 21, 2001 Jerrold E. Marsden, marsden@cds.caltech.edu Alan Weinstein, alanw@math.berkeley.edu

The following errata are for the corrected fourth printing (1998) of the second edition and will be made the next time Calculus III is reprinted. We are grateful to those who provide additional corrections. Please communicate any new ones by sending e-mail to the authors.

In these errata, "line  $3\uparrow$ " means "line 3 from the bottom of the page".

Chapter 16

Page 835 Figure 16.R.5 is missing.

## Chapter 17

Page 868 Figure 17.4.9 is incorrect.

**Page 878, line 16** should read "... the gravitational potential for a unit mass at  $(x_1, y_1, z_1)$ ...".

Page 878, line  $9^{\uparrow}$  the formula should read

$$V(x_1, y_1, z_1) = -G \iiint_W \cdots$$

Page 879, line 2 should read "gravitational potential for a unit mass is given by".

- **Page 879, lines 3, 7, 8, 9, 10, 6** $\uparrow$ , **3** $\uparrow$  the RHS of each of these equations should have a minus sign.
- **Page 880, lines 1, 2, 12, 13, 16** $\uparrow$ , **15** $\uparrow$  the RHS of each of these equations should have a minus sign.
- **Page 880, line 8** $\uparrow$  the equation should read

$$V(0,0,R) = -\frac{2\pi}{R} \int_{\rho_1}^{\rho_2} \rho \left[\rho + R - (\rho - R)\right] d\rho = -4\pi \int_{\rho_1}^{\rho_2} \rho \, d\rho = -2\pi (\rho_2^2 - \rho_1^2).$$

## Index

Page I.12 "quadratic surfaces" should be "quadric surfaces".