Errata for Calculus III, Second Edition<br>Version: March, 2007<br>Jerrold E. Marsden, jmarsden@caltech.edu<br>Alan Weinstein, alanw@math.berkeley.edu

The following errata are for the current printing of the second edition. 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 14

Page 753, Exercise 16 "curvature vector" should be "curvature".

## Chapter 17

Page 878, line 16 should read ". . the gravitational potential for a unit mass at $\left(x_{1}, y_{1}, z_{1}\right) \ldots "$.

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

$$
V\left(x_{1}, y_{1}, z_{1}\right)=-G \iiint_{W} \cdots
$$

Page 879 , line 2 should read "gravitational potential for a unit mass is given by".
Page $\mathbf{8 7 9}$, lines $\mathbf{3}, \mathbf{7}, \mathbf{8}, \mathbf{9}, \mathbf{1 0}, \mathbf{6} \uparrow, \mathbf{3} \uparrow$ 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 $\mathbf{8 8 0}$, line $\mathbf{8} \uparrow$ the equation should read

$$
V(0,0, R)=-\frac{2 \pi}{R} \int_{\rho_{1}}^{\rho_{2}} \rho[\rho+R-(\rho-R)] d \rho=-4 \pi \int_{\rho_{1}}^{\rho_{2}} \rho d \rho=-2 \pi\left(\rho_{2}^{2}-\rho_{1}^{2}\right)
$$

Page 881, lines 1, 7 The potential should have a minus sign.

## Index

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

