

# Errata for Vector Calculus, 4th Edition, 6th Printing

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This file contains the errata known to us as of the above date for the sixth printing of the 4th edition (2001). You can tell if you have the **sixth printing** of the fourth edition by looking at the bottom of the page opposite the table of contents page. It should say “Sixth printing, 2001”.

If you have an earlier printing please see the web site for the errata list:  
<http://www.cds.caltech.edu/~marsden>.

## Chapter 6

**Pages 368-369** in Example 5, instead of using the substitution  $T$ , one can divide the original square into two triangles  $T_1$  and  $T_2$  as in the text, write the integral over  $T_1$  as a double integral (first with respect to  $y$ , then with respect to  $x$ ); in the integral over  $y$ , substitute  $y = xv$ , then use the standard integral number 43 at the back of the book.

**Page 389** Figure 6.4.3 is only correct for  $\eta < 2\delta$ .

## Chapter 7

**Page 401, Exercise 6** the first  $t_i$  in the sum should be  $t_i^2$ .

**Page 410, line 11** should read

$$\gamma(t) = (\cos t, \sin t), \quad 0 \leq t \leq 4\pi.$$

**Page 430, line 5** the line should end with a “.”.

**Page 450, line 10** should read

$$= [(\cos \theta \sin \phi)\mathbf{i} + (\sin \theta \sin \phi)\mathbf{j} + (\cos \phi)\mathbf{k}].$$

**Page 462, Exercise 18c**  $\int_C \mathbf{F} \cdot d\mathbf{S}$  should be  $\int_C \mathbf{F} \cdot ds$ .

## Answers to Odd-Numbered Exercises

**Page 598, §6.3 (5)** the answer should be \$503.64.

## Symbols Index

**Line 12**  $\mathbb{R}$  should be  $\mathbb{R}^3$ .