

Errata for Vector Calculus, 4th Edition, 7th Printing

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This file contains the errata known to us as of the above date for the seventh printing of the 4th edition (2001). You can tell if you have the **seventh printing** of the fourth edition by looking at the bottom of the page opposite the table of contents page. It should say “Seventh 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 Comment on 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, line 3 “We choose $\delta < \eta \dots$ ” should be “We choose $\delta < \eta < 2\delta \dots$ ”.

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.