

# Final Exam Study Guide

**Disclaimer:** The following is not intended to be an exhaustive review of everything you should master to do well on the final exam. Rather, it is meant to supplement your working out of the homework problems and practice exam questions by focusing on terminology and theoretical concepts that might otherwise fall through the cracks. I also am not inside the instructor's mind and cannot say how close the exam questions will be to this material. These are simply the concepts that jump out to me based on my past experience teaching the class that I thought important enough to highlight.

## Terms to Know:

vector field (p. 253)  
radial vector field (p. 255)  
conservative vector field (sometimes called gradient field, p. 258)  
potential function (p. 258)  
line integral of  $f$  over  $C$  (p. 267)  
line integral of a vector field (p. 272)  
closed curve, simple curve (p. 279)  
open region, connected region, simply connected region (p. 280)  
circulation of the vector field  $\mathbf{F}$  around  $C$  (p. 281)  
surface integral of  $f$  over  $S$  (p. 298)  
flux (p. 306)  
surface integral of  $\mathbf{F}$  over  $S$  (p. 308)  
curl of a vector field (p. 321)  
irrotational vector field (p. 321)  
consistency of orientation between a surface and its boundary curve (p. 327)  
divergence of a vector field (p. 333)  
incompressible vector field (p. 333)

## Theorems to Know: Make sure to know the hypotheses as well as the conclusions!

Cross-Partial Property of Conservative Vector Field (p. 260)  
Fundamental Theorem of Conservative Vector Fields (p. 288)  
Green's Theorem (p. 314)  
Stokes' Theorem (p. 327)  
Divergence Theorem (p. 337)

# College Computing Final Exam Study Guide

**Victor M. Corman**

## **College Computing Final Exam Study Guide:**

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dentistry education health administration human resources development law medicine nursing optometry pharmacy podiatry public health social work veterinary medicine and more     *Amateur Radio* ,1982     *Journal of the North Carolina Academy of Science* ,2006     *Music Listening Today* Charles R. Hoffer,2006-02 This set of CDs provides recordings of the 57 additional pieces not included on the CDs automatically packaged with the text     *El-Hi Textbooks and Serials in Print*, 1995 R R Bowker Publishing,1995-02     Subject Guide to Books in Print ,1975     Bears Guide to Earning Degrees by Distance Learning Mariah Bear,Mariah P. Bear,Thomas Nixon,2006 Identifies colleges and universities that offer a non traditional way to gain a bachelor s master s or doctorate degree     **Private Pilot FAA Practical Test Study Guide** Jeppesen Staff,2003 This study guide carefully parallels the FAA Areas of Operations and Tasks in the Private Pilot Practical Test Standards Provides key questions answers explanations and references Designed to coordinate with the knowledge and task portions of the PTS Includes a copy of the FAA Private Single Engine Land Sea PTS     **Resources in Education** ,1997     *Journal of Geoscience Education* ,1996

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