

16.1 Multi-Variable Calc Notes

Vector Fields

If F is a vector field, then $F(x, y) = P(x, y)\mathbf{i} + Q(x, y)\mathbf{j} = \langle P(x, y), Q(x, y) \rangle \rightarrow F = P\mathbf{i} + Q\mathbf{j}$

Gradient Vector Fields

If f is a scalar function of two variables, then ∇f is a gradient vector field

Conservative Vector Fields

If a vector field is conservative, then the law of conservation of energy applies

There are 2 ways to check if a vector field is conservative.

- If the potential function exists, then the vector field is conservative. The potential function is the sum of each component integrated with respect to its corresponding variable, ignoring repeated terms

$$F(x, y) = \langle 2xz^4 - 2y - y^2, z - 2x - 3xy^2, 6 + y + 8xz^3 \rangle$$

$$\int 2xz^4 - 2y - y^2 \, dx \rightarrow 2xz^4 - 2xy - xy^2 + C$$

$$\int z - 2x - 3xy^2 \, dy \rightarrow yz - 2xy - xy^2 + C$$

$$\int 6 + y + 8xz^3 \, dz \rightarrow 6z + yz + 2xz^4 + C$$

$$\text{Potential function} = 2xz^4 - 2xy - xy^2 + yz + 6z + K$$

- If the mixed partials of the components equal each other, then the vector field is conservative. This only really works for 2-dimensional vector fields

$$F(x, y) = \langle 2xe^{xy} + x^2ye^{xy}, x^2e^{xy} + 2y \rangle$$

$$\frac{\partial}{\partial y} 2xe^{xy} + x^2ye^{xy} \rightarrow 2x^2e^{xy} + x^2ye^{xy} + x^2e^{xy} \rightarrow 3x^2e^{xy} + x^2ye^{xy}$$

$$\frac{\partial}{\partial x} x^2e^{xy} + 2y \rightarrow x^2ye^{xy} + 3x^2e^{xy}$$

The partials equal each other so the vector field is conservative

Multivariable Calculus Chapter 16

Jianjun Gao



Multivariable Calculus Chapter 16:

Multivariable Calculus (Paper) Jon Rogawski, 2007-06-22 The multivariable version of Rogawski's new text presents calculus with solid mathematical precision but with an everyday sensibility that puts the main concepts in clear terms. It is rigorous without being inaccessible and clear without being too informal; it has the perfect balance for instructors and their students.

Multivariable Calculus Dennis G. Zill, Warren S. Wright, 2009-12-11 Appropriate for the third semester in the college calculus sequence, the Fourth Edition of *Multivariable Calculus* maintains the student-friendly writing style and robust exercises and problem sets that Dennis Zill is famous for. Ideal as a follow-up companion to Zill's first volume or as a stand-alone text, this exceptional revision presents the topics typically covered in the traditional third course, including Vector-Valued Functions, Differential Calculus of Functions of Several Variables, Integral Calculus of Functions of Several Variables, Vector Integral Calculus, and an Introduction to Differential Equations.

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Single and Multivariable Calculus, **Multivariable Calculus** L. Corwin, 2017-10-19 Classroom-tested and lucidly written, *Multivariable Calculus* gives a thorough and rigorous treatment of differential and integral calculus of functions of several variables. Designed as a junior-level textbook for an advanced calculus course, this book covers a variety of notions including continuity, differentiation, multiple integrals, line and surface integrals, differential forms, and infinite series. Numerous exercises and examples throughout the book facilitate the student's understanding of important concepts. The level of rigor in this textbook is high; virtually every result is accompanied by a proof. To accommodate teachers' individual needs, the material is organized so that proofs can be deemphasized or even omitted. Linear algebra for n -dimensional Euclidean space is developed when required for the calculus; for example, linear transformations are discussed for the treatment of derivatives. Featuring a detailed discussion of differential forms and Stokes' theorem, *Multivariable Calculus* is an excellent textbook for junior-level advanced calculus courses, and it is also useful for sophomores who have a strong background in single-variable calculus. A two-year calculus sequence or a one-year honor calculus course is required for the most successful use of this textbook. Students will benefit enormously from this book's systematic approach to mathematical analysis, which will ultimately prepare them for more advanced topics in the field.

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sensibility that puts the main concepts in clear terms It is rigorous without being inaccessible and clear without being too informal it has the perfect balance for instructors and their students Multidimensional Differential and Integral Calculus Giorgio Riccardi, Bruno Antonio Cifra, Enrico De Bernardis, 2024-11-06 This textbook proposes an informal access to the most important issues of multidimensional differential and integral calculus The traditional style characterized by listing definitions theorems and proofs is replaced by a conversational approach primarily oriented to applications The topics covered developing along the usual path of a textbook for undergraduate courses are always introduced by thoroughly carried out examples This drives the reader in building the capacity of properly use the theoretical tools to model and solve practical problems To situate the contents within a historical perspective the book is accompanied by a number of links to the biographies of all scientists mentioned as leading actors in the development of the theory Complete Solutions Manual for Multivariable Calculus, Fifth Edition Dan Clegg, James Stewart, Barbara Frank, 2003 This complete solutions manual contains detailed solutions to selected exercises in chapters 11 18 of Multivariable calculus fifth edition and chapters 10 17 of Calculus early transdendentals fifth edition Engineering Mathematics for Marine Applications Mr. Rohit Manglik, 2024-05-11 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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