# Calculus III. Vol.3
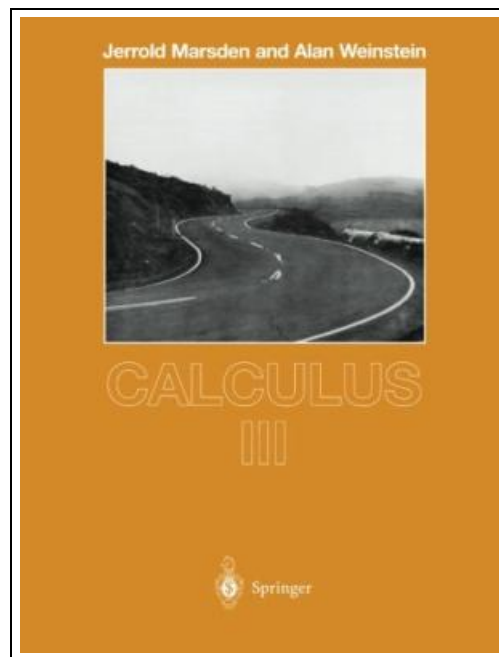
Jerrold Marsden and Alan Weinstein

CALCULUS
III

Springer

**Filesize: 6.75 MB**

## Reviews

Completely essential study ebook. This is for all those who statte there was not a well worth reading. I realized this book from my dad and i recommended this publication to find out.

*(Jarrell Kovacek)*

# CALCULUS III. VOL.3

Condition: New. Publisher/Verlag: Springer, Berlin | This book, the third of a three-volume work, is the outgrowth of the authors&apos; experience teaching calculus at Berkeley. It is concerned with multivariable calculus, and begins with the necessary material from analytical geometry. It goes on to cover partial differention, the gradient and its applications, multiple integration, and the theorems of Green, Gauss and Stokes. Throughout the book, the authors motivate the study of calculus using its applications. Many solved problems are included, and extensive exercises are given at the end of each section. In addition, a separate student guide has been prepared. | 13 Vectors.- 13.1 Vectors in the Plane.- 13.2 Vectors in Space.- 13.3 Lines and Distance.- 13.4 The Dot Product.- 13.5 The Cross Product.- 13.6 Matrices and Determinants.- 14 Curves and Surfaces.- 14.1 The Conic Sections.- 14.2 Translation and Rotation of Axes.- 14.3 Functions, Graphs, and Level Surfaces.- 14.4 Quadric Surfaces.- 14.5 Cylindrical and Spherical Coordinates.- 14.6 Curves in Space.- 14.7 The Geometry and Physics of Space Curves.- 15 Partial Differentiation.- 15.1 Introduction to Partial Derivatives.- 15.2 Linear Approximations and Tangent Planes.- 15.3 The Chain Rule.- 15.4 Matrix Multiplication and the Chain Rule.- 16 Gradients, Maxima, and Minima.- 16.1 Gradients and Directional Derivatives.- 16.2 Gradients, Level Surfaces, and Implicit Differentiation.- 16.3 Maxima and Minima.- 16.4 Constrained Extrema and Lagrange Multipliers.- 17 Multiple Integration.- 17.1 The Double Integral and Iterated Integral.- 17.2 The Double Integral Over General Regions.- 17.3 Applications of the Double Integral.- 17.4 Triple Integrals.- 17.5 Integrals in Polar, Cylindrical, and Spherical Coordinates.- 17.6 Applications of Triple Integrals.- 18 Vector Analysis.- 18.1 Line Integrals.- 18.2 Path Independence.- 18.3 Exact Differentials.- 18.4 Green&apos;s Theorem.- 18.5 Circulation and Stokes&apos; Theorem.- 18.6 Flux and the Divergence Theorem.- Answers. | Format: Paperback | Language/Sprache: english | 870 gr | 372 pp.

Read Calculus III. Vol.3 Online

Download PDF Calculus III. Vol.3

# Related Books

### Johnny Goes to First Grade: Bedtime Stories Book for Children s Age 3-10. (Good Night Bedtime Children s Story Book Collection)

Createspace, United States, 2013. Paperback. Book Condition: New. Malgorzata Gudziuk (illustrator). Large Print. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Do you want to ease tension preschoolers have...

Download Book »

### Becoming Barenaked: Leaving a Six Figure Career, Selling All of Our Crap, Pulling the Kids Out of School, and Buying an RV We Hit the Road in Search Our Own American Dream. Redefining What It Meant to Be a Family in America.

Createspace, United States, 2015. Paperback. Book Condition: New. 258 x 208 mm. Language: English . Brand New Book ***** Print on Demand *****.This isn t porn. Everyone always asks and some of our family thinks...

Download Book »

### TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

Download Book »

### Penguin Kids Level 4. Toy Story 3 (Penguin Kids (Graded Readers))

Pearson Longman, 2012. Taschenbuch. Book Condition: Neu. Neu Titel auf Lager, Neu, versand am selben Werktag er Bestellung bis 16 Uhr, - Woody and his friends have a problem! Andy is going away to college....

Download Book »

### Story Elements, Grades 3-4

Carson Dellosa Pub Co Inc, 2012. PAP. Book Condition: New. New Book. Shipped from US within 10 to 14 business days. Established seller since 2000.

Download Book »