



Calculus BLUE Multivariable Volume 1: Vectors & Matrices (Primary Calculus Book 9)

Robert Ghrist

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This volume is the first in a 4-volume set of CALCULUS BLUE books on multivariable calculus. It follows the (to be released) CALCULUS RED [introductory] and CALCULUS GREEN [single variable] sets. The resulting color-coded PRIMARY CALCULUS is a revolutionary series of graphical Mathematics texts optimized for reading on phone/tablet/kindle devices.

Calculus BLUE Multivariable Volume 1: Vectors & Matrices introduces vector and matrix algebra in the context of preparing for multivariable calculus. Topics covered in this text include:

- * curves and surfaces
- * vectors and coordinates
- * matrices and matrix algebra
- * matrix equations and linear systems
- * row reduction and inverse matrix computation
- * coordinate changes and bases
- * determinants and their interpretation and computation
- * a preview of linear algebra and matrices of partial derivatives

Throughout, the text is filled with contemporary applications to robotics, data, mechanics, economics, probability, networks, and biology. Theory and application are brought to life in full eye-scorching color (though a lot of it is blue).

This volume consists of 17 chapters (plus a prologue, epilogue, and foreshadowing of volume 2), each containing exercises for practice, for a total of 375 pages of mathematics and color and joy and sweat.

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