Calculus BLUE Multivariable Volume 2: Derivatives (Primary Calculus Book 10)

Robert Ghrist

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* the derivative as a linear transformation on vectors of rates of change
* differentiation rules, including the chain rule as matrix multiplication
* the inverse and implicit function theorems, with applications
* gradients and directional derivatives
* linearization and Taylor expansion of multivariate functions
* optimization of multivariate functions
* applications to linear regression, game theory, & Nash equilibria
* constrained optimization and the Lagrange multiplier
* a hint of deeper applications in optimization theory, dynamical system, & more

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