

# Vector Calculus Miroslav Lovric

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a comprehensive solutions manual for students using the vector calculus text this book gives a comprehensive and thorough introduction to ideas and major results of the theory of functions of several variables and of modern vector calculus in two and three dimensions clear and easy to follow writing style carefully crafted examples wide spectrum of applications and numerous illustrations diagrams and graphs invite students to use the textbook actively helping them to both enforce their understanding of the material and to brush up on necessary technical and computational skills the student solutions manual to accompany vector calculus also pays particular attention to material that some students find challenging such as the chain rule implicit function theorem parametrizations or the change of variables theorem

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this text explains the theory of vector valued functions with detailed solutions of all examples end of section exercises and end of chapter reviews including challenging problems it also reviews relevant topics in linear algebra and calculus of real valued functions of several variables

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mathematics has played a major role in breakthroughs in epidemiology genetics physiology and other biological areas calculus for the life sciences modelling the dynamics of life provides life science students with a thorough grounding in mathematics while helping them to understand the role mathematics has in biological science

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