

## Vector Calculus Miroslav Lovric

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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 particular attention has been given to the

material that some students find challenging such as the chain rule implicit function theorem parametrizations or the change of variables theorem

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 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 particular attention has been given to the material that some students find challenging such as the chain rule implicit function theorem parametrizations or the change of variables theorem

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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