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tensor calculus is a prerequisite for many tasks in physics and engineering this book introduces the symbolic and the index notation side by side and offers easy access to techniques in the field by focusing on algorithms in index notation it explains the required algebraic tools and contains numerous exercises with answers making it suitable for self study for students and researchers in areas such as solid mechanics fluid mechanics and electrodynamics contents algebraic tools tensor analysis in symbolic notation and in cartesian coordinates algebra of second order tensors tensor analysis in curvilinear coordinates representation of tensor functions appendices solutions to the problems cylindrical coordinates and spherical coordinates

a computer algebra system such as mathematica is able to do much more than just numerics this revised text shows how to tackle real mathematical problems from basic analysis the reader learns how mathematica represents domains qualifiers and limits to implement actual proofs a requirement to unlock the huge potential of mathematica for a variety of applications

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are addressed it turns out that the one sided preference for standard analysis is justified neither from a didactic mathematical nor philosophical point of view thus the book is especially valuable for students and instructors of analysis who are also interested in the foundations of their subject

business statistics with solutions in r covers a wide range of applications of statistics in solving business related problems it will introduce readers to quantitative tools that are necessary for daily business needs and help them to make evidence based decisions the book provides an insight on how to summarize data analyze it and draw meaningful inferences that can be used to improve decisions it will enable readers to develop computational skills and problem solving competence using the open source language r mustapha abiodun akinkunmi uses real life business data for illustrative examples while discussing the basic statistical measures probability regression analysis significance testing correlation the poisson distribution process control for manufacturing time series analysis forecasting techniques exponential smoothing univariate and multivariate analysis including anova and manova and more in this valuable reference for policy makers professionals academics and individuals interested in the areas of business statistics applied statistics statistical computing finance management and econometrics

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