

# Selected Solutions for *An Introduction to Tensors and Group Theory for Physicists, 2nd ed.*

May 19, 2021

## Introduction

This is an incomplete, evolving solutions manual to [Hee18]. Note that this is the second edition of this text, and that exercise and problem numbering differs between editions. Solutions posted here have primarily been written by students in courses I taught in the UC Berkeley Physics department between 2012 and 2016. Additional solutions have been contributed by James Kennington. If you are interested in improving existing solutions or adding new ones of your own, please email me at mading@princeton.edu.

## 1 A Quick Introduction to Tensors

## 2 Vector Spaces

**Exercise 2.1 :** Verify equation 2.7, which states

$$\Delta_{S^2} Y(\theta, \phi) = -l(l+1)Y(\theta, \phi).$$

**Solution:** Pick a vector  $f \in \mathcal{H}_l(\mathbb{R}^3)$ . This function has two useful properties: in spherical coordinates, we may write our function as  $f(r, \theta, \phi) = r^l Y(\theta, \phi)$  – this is a property of  $\mathcal{H}_l(\mathbb{R}^3)$ , which contains  $\mathcal{H}_l(\mathbb{R}^2)$  as a subspace. And, since we have chosen it from  $\mathcal{H}_l(\mathbb{R}^3)$ , it satisfies  $\Delta f = 0$ . We write the Laplacian explicitly and combine terms.

$$\begin{aligned}\Delta f &= \left( \frac{\partial^2}{\partial r^2} + \frac{2}{r} \frac{\partial}{\partial r} + \frac{1}{r^2} \Delta_{S^2} \right) r^l Y(\theta, \phi) \\ &= l(l+1)r^{l-2}Y + \frac{2}{r} l r^{l-1}Y + r^{l-2} \Delta_{S^2} Y \\ &= l(l+1)r^{l-2}Y + 2l r^{l-2}Y + r^{l-2} \Delta_{S^2} Y \\ &= l(l+1)r^{l-2}Y + r^{l-2} \Delta_{S^2} Y\end{aligned}$$

But we know this quantity is equal to zero. Therefore,

$$\Delta_{S^2} Y(\theta, \phi) = -l(l+1)Y(\theta, \phi)$$

as claimed. Thus all harmonic  $l$ -degree polynomials correspond to a matching spherical harmonic, which corresponds to the restriction of the said polynomial to the unit sphere.

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**Exercise 2.3 :** Given a vector  $v$  and a finite basis  $\mathcal{B} = \{e_i\}_{i=1,\dots,n}$ , show that the expression of  $v$  as a linear combination of the  $e_i$  is unique.

**Solution:** Suppose that our representation of  $v$  in the basis  $\mathcal{B}$  is explicitly given by  $v = a^i e_i$ , where the  $a^i$  are scalars in the appropriate field. Now, suppose that there exists another representation of  $v$  in the same basis, given by  $v = b^i e_i$ . Then we may write:

$$\begin{aligned}v - v &= 0 \\ &= a^i e_i - b^i e_i \\ &= (a^i - b^i) e_i\end{aligned}$$

# Solution Manual Vector And Tensor

**John H. Hubbard,Barbara Burke  
Hubbard**

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The Mathematical Theory of Elasticity Richard B. Hetnarski, Józef Ignaczak, 2016-04-19 Through its inclusion of specific applications The Mathematical Theory of Elasticity Second Edition continues to provide a bridge between the theory and applications of elasticity It presents classical as well as more recent results including those obtained by the authors and their colleagues Revised and improved this edition incorporates add

### **Moment Tensor Solutions** Sebastiano

D'Amico, 2018-05-12 This book first focuses on the explanation of the theory about focal mechanisms and moment tensor solutions and their role in the modern seismology The second part of the book compiles several state of the art case studies in different seismotectonic settings of the planet The assessment of seismic hazard and the reduction of losses due to future earthquakes is probably the most important contribution of seismology to society In this regard the understanding of reliable determination seismic source and of its uncertainty can play a key role in contributing to geodynamic investigation seismic hazard assessment and earthquake studies In the last two decades the use of waveforms recorded at local to regional distances has increased considerably Waveform modeling has been used also to estimate faulting parameters of small to moderate sized earthquakes

### **Student solution manual for the second edition of vector calculus, linear algebra, and differential forms**

John H. Hubbard, Barbara Burke Hubbard, 2002-01-01 Contains worked out solutions to odd exercises in Vector Calculus Linear Algebra and Differential Forms A Unified Approach by John H Hubbard professor of mathematics at Cornell University and Barbara Burke Hubbard

Introduction to Tensor Analysis and the Calculus of Moving Surfaces Pavel Grinfeld, 2013-09-24 This textbook is distinguished from other texts on the subject by the depth of the presentation and the discussion of the calculus of moving surfaces which is an extension of tensor calculus to deforming manifolds Designed for advanced undergraduate and graduate students this text invites its audience to take a fresh look at previously learned material through the prism of tensor calculus Once the framework is mastered the student is introduced to new material which includes differential geometry on manifolds shape optimization boundary perturbation and dynamic fluid film equations The language of tensors originally championed by Einstein is as fundamental as the languages of calculus and linear algebra and is one that every technical scientist ought to speak The tensor technique invented at the turn of the 20th century is now considered classical Yet as the author shows it remains remarkably vital and relevant The author's skilled lecturing capabilities are evident by the inclusion of insightful examples and a plethora of exercises A great deal of material is devoted to the geometric fundamentals the mechanics of change of variables the proper use of the tensor notation and the discussion of the interplay between algebra and geometry The early chapters have many words and few equations The definition of a tensor comes only in Chapter 6 when the reader is ready for it While this text maintains a consistent level of rigor it takes great care to avoid formalizing the subject The last part of the textbook is devoted to the Calculus of Moving Surfaces It is the first textbook exposition of this important technique and is one of the gems of this text A number of exciting

applications of the calculus are presented including shape optimization boundary perturbation of boundary value problems and dynamic fluid film equations developed by the author in recent years Furthermore the moving surfaces framework is used to offer new derivations of classical results such as the geodesic equation and the celebrated Gauss Bonnet theorem

**A Student's Manual for A First Course in General Relativity** Robert B. Scott,2016 This comprehensive student manual has been designed to accompany the leading textbook by Bernard Schutz **A First Course in General Relativity** and uses detailed solutions cross referenced to several introductory and more advanced textbooks to enable self learners undergraduates and postgraduates to master general relativity through problem solving The perfect accompaniment to Schutz s textbook this manual guides the reader step by step through over 200 exercises with clear easy to follow derivations It provides detailed solutions to almost half of Schutz s exercises and includes 125 brand new supplementary problems that address the subtle points of each chapter It includes a comprehensive index and collects useful mathematical results such as transformation matrices and Christoffel symbols for commonly studied spacetimes in an appendix Supported by an online table categorising exercises a Maple worksheet and an instructors manual this text provides an invaluable resource for all students and instructors using Schutz s textbook

**Mathematical Physics** Bruce R. Kusse,Erik A. Westwig,2006-03-10 The second corrected edition of this well established mathematical text again puts its emphasis on mathematical tools commonly used by scientists and engineers to solve real world problems Using a unique approach it covers intermediate and advanced material in a manner appropriate for undergraduate students Based on author Bruce Kusse s course at the Department of Applied and Engineering Physics at Cornell University Mathematical Physics begins with essentials such as vector and tensor algebra curvilinear coordinate systems complex variables Fourier series Fourier and Laplace transforms differential and integral equations and solutions to Laplace s equations The book moves on to explain complex topics that often fall through the cracks in undergraduate programs including the Dirac delta function multivalued complex functions using branch cuts branch points and Riemann sheets contravariant and covariant tensors and an introduction to group theory The book covers applications in all areas of engineering and the physical science and features numerous figures and worked out examples throughout the text Many end of chapter exercises are provides a free solution manual is available for lecturers The topics are organized pedagogically in the order they will be most easily understood From the contents A review of Vector and Matrix Algebra Using Subscript Summation Conventions Differential and Integral Operations on Vector and Scalar Fields Curvilinear Coordinate Systems Tensors in Orthogonal and Skewed Systems The Dirac Function Complex Variables Fourier Series Fourier and Laplace Transforms Differential Equations Solutions to Laplace s Equation Integral Equations

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Scientific and Technical Books in Print ,1972    Activities of Transport Telematics Jerzy Mikulski,2013-10-01 This book constitutes the proceedings of the 13th International Conference on Transport Systems Telematics TST 2013 held in Katowice Ustron Poland in October 2013 The 58 papers included in this volume were carefully reviewed and selected for inclusion in this book They provide an overview of solutions being developed in the field of intelligent transportation systems and include theoretical and case studies in the countries of conference participants    Mechanical Engineering News ,1974

**A Course of Geometrical Analysis** Haridas Bagchi,1926    Vector and Tensor Analysis with Applications Aleksandr Ivanovich Borisenko,Ivan Evgen?evich Tarapov,1968-01-01 Concise readable text ranges from definition of vectors and discussion of algebraic operations on vectors to the concept of tensor and algebraic operations on tensors Worked out problems and solutions 1968 edition    **Symbolic Computation in Fluid Mechanics and Heat Transfer** American Society of Mechanical Engineers. Winter Annual Meeting,1988    *Meteorological Abstracts and Bibliography* ,1957 Includes supplements    Technical Books in Print ,1966

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## **Table of Contents Solution Manual Vector And Tensor**

1. Understanding the eBook Solution Manual Vector And Tensor
  - The Rise of Digital Reading Solution Manual Vector And Tensor
  - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Vector And Tensor
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solution Manual Vector And Tensor
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Vector And Tensor
  - Personalized Recommendations
  - Solution Manual Vector And Tensor User Reviews and Ratings
  - Solution Manual Vector And Tensor and Bestseller Lists
5. Accessing Solution Manual Vector And Tensor Free and Paid eBooks
  - Solution Manual Vector And Tensor Public Domain eBooks
  - Solution Manual Vector And Tensor eBook Subscription Services
  - Solution Manual Vector And Tensor Budget-Friendly Options

6. Navigating Solution Manual Vector And Tensor eBook Formats
  - ePUB, PDF, MOBI, and More
  - Solution Manual Vector And Tensor Compatibility with Devices
  - Solution Manual Vector And Tensor Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solution Manual Vector And Tensor
  - Highlighting and Note-Taking Solution Manual Vector And Tensor
  - Interactive Elements Solution Manual Vector And Tensor
8. Staying Engaged with Solution Manual Vector And Tensor
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solution Manual Vector And Tensor
9. Balancing eBooks and Physical Books Solution Manual Vector And Tensor
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solution Manual Vector And Tensor
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Solution Manual Vector And Tensor
  - Setting Reading Goals Solution Manual Vector And Tensor
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Manual Vector And Tensor
  - Fact-Checking eBook Content of Solution Manual Vector And Tensor
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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