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 [Jee15]. Note that this is the second edition of this text, and that exercise and problems 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 nadirj@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 $P_l(\mathbb{R}^3)$, which contains $\mathcal{H}_l(\mathbb{R}^3)$ 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

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

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.

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 representations 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:

$$v - v = 0$$
$$= a^i e_i - b^i e_i$$
$$= (a^i - b^i)e_i$$

Solution Manual Vector And Tensor

Byron P. Roe

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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 **Student Solutions Manual for Mathematical Methods for Physics and Engineering** Kenneth Franklin Riley,Michael Paul Hobson,2006 The authors present a wide ranging and comprehensive textbook for physical scientists who need to use the tools of mathematics for practical purposes **The Mathematical Theory of Elasticity** Richard B. Hetnarski,Jozef 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 Solution Manual to Accompany Volume I of Quantum Mechanics by Cohen-Tannoudji, Diu and Laloë Guillaume Merle,Oliver J. Harper,Philippe Ribiere,2023-07-24 Solution Manual to Accompany Volume I of Quantum Mechanics by Cohen Tannoudji Diu and Lalo Grasp the fundamentals of quantum mechanics with this essential set of solutions Quantum mechanics with its counter intuitive premises and its radical variations from classical mechanics or electrodynamics is both among the most important components of a modern physics education and one of the most challenging It demands both a theoretical grounding and a grasp of mathematical technique that take time and effort to master Students working through quantum mechanics curricula generally practice by working through increasingly difficult problem sets such as those found in the seminal Quantum Mechanics volumes by Cohen Tannoudji Diu and Lalo This solution manual accompanies Volume I and offers the long awaited detailed solutions to all 69 problems in this text Its accessible format provides explicit explanations of every step focusing on both the physical theory and the formal mathematics to ensure students grasp all pertinent concepts It also includes guidance for transferring the solution approaches to comparable problems in quantum mechanics Readers also benefit from Approximately 70 figures to clarify key steps and concepts Detailed explanations of problems concerning quantum mechanics postulates mathematical tools properties of angular momentum and more This solution manual is a must have for students in physics chemistry or the materials sciences looking to master these challenging problems as well as for instructors looking for pedagogical approaches to the subject Solution Manual to Accompany Volume II of Quantum Mechanics by Cohen-Tannoudji, Diu and Laloë Guillaume Merle,Oliver J. Harper,2024-06-27 Provides detailed solutions to all 47 problems in the seminal textbook Quantum Mechanics Volume II With its counter intuitive premises and its radical variations from classical mechanics or electrodynamics quantum mechanics is among the most important and challenging components of a modern physics education Students tackling quantum mechanics curricula generally practice by working through increasingly difficult problem sets that demand both a theoretical grounding and a solid understanding of mathematical

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