

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

October 3, 2018

## Introduction

This is an incomplete, evolving solutions manual to [Jee15]. 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. 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

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

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:

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

# Group Theory Solutions Manual

**D Kirk**



## **Group Theory Solutions Manual:**

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*Solutions Manual for Quanta, Matter and Change* Peter Atkins, Julio dePaula, Ron Friedman, 2008-12-15 **Group**

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Aivazis, Wu-ki Tung, 1991-06-25 This solutions booklet is a supplement to the text book Group Theory in Physics by Wu Ki Tung It will be useful to lecturers and students taking the subject as detailed solutions are given *Solutions to Resnick and Halliday Physics Pt.1-2* , **Student Solutions Manual to Accompany Linear Algebra with Applications** Gareth

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designed to be very easy to use with many internal references set up that makes browsing in many different ways possible Topics covered include abstract algebra finite groups abelian groups representation theory category theory and many more

*A Gentle Introduction to Group Theory* Bana Al Subaiei, Muneerah Al Nuwairan, 2023-05-31 The book is intended to serve as an introductory course in group theory geared towards second year university students It aims to provide them with the background needed to pursue more advanced courses in algebra and to provide a rich source of examples and exercises Studying group theory began in the late eighteenth century and is still gaining importance due to its applications in physics chemistry geometry and many fields in mathematics The text is broadly divided into three parts The first part establishes the prerequisite knowledge required to study group theory This includes topics in set theory geometry and number theory Each of the chapters ends with solved and unsolved exercises relating to the topic By doing this the authors hope to fill the gaps between all the branches in mathematics that are linked to group theory The second part is the core of the book which discusses topics on semigroups groups symmetric groups subgroups homomorphisms isomorphism and Abelian groups The last part of the book introduces SAGE a mathematical software that is used to solve group theory problems Here most of the important commands in SAGE are explained and many examples and exercises are provided

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*Symmetry, Broken Symmetry, and Topology in Modern Physics* Mike Guidry, Yang Sun, 2022-03-31 Written for use in teaching and for self study this book provides a comprehensive and pedagogical introduction to groups algebras geometry and topology It assimilates modern applications of these concepts assuming only an advanced undergraduate preparation in physics It provides a balanced view of group theory Lie algebras and topological concepts while emphasizing a broad range of modern applications such as Lorentz and Poincar invariance coherent states quantum phase transitions the quantum Hall effect topological matter and Chern numbers among many others An example based approach is adopted from the outset and the book includes worked examples and informational boxes to illustrate and expand on key concepts 344 homework problems are included with full solutions available to instructors and a subset of 172 of these problems have full solutions available to students

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