

Chapter 7 Solutions

Problem 9

A worker sequentially works on jobs. Each time a job is completed, a new one is begun. Each job, independently, takes a random amount of time having distribution F to complete. However, independently of this, shocks occur according to a Poisson process with rate λ . Whenever a shock occurs, the worker discontinues working on the present job and starts a new one. In the long run, at what rate are jobs completed?

Solution

A job completion is a renewal. Let T denote the time between renewals, and let W denote the time it takes to finish the next job. To compute $E[T]$, condition on W , using the fact that $E[T] = E[E[T|W]]$.

To determine $E[T|W = w]$, condition on S , the time of the next shock. We then have

$$E[T|W = w] = \int_0^{\infty} E[T|W = w, S = x] \lambda e^{-\lambda x} dx.$$

If the job is finished before the next shock, then the total time is exactly the job time. Otherwise, a shock "resets" the system. Formally, this means

$$E[T|W = w, S = x] = \begin{cases} x + E[T], & \text{if } x < w \\ w, & \text{if } x \geq w. \end{cases}$$

Hence the above integral is split into two portions, yielding

$$\begin{aligned} E[T|W = w] &= \int_0^w (x + E[T]) \lambda e^{-\lambda x} dx + \int_w^{\infty} \lambda e^{-\lambda x} dx \\ &= E[T] (1 - e^{-\lambda w}) + \frac{1}{\lambda} - we^{-\lambda w} - \frac{1}{\lambda} e^{-\lambda w} - we^{-\lambda w}. \end{aligned}$$

Therefore,

$$E[T|W] = \left(E[T] + \frac{1}{\lambda} \right) (1 - e^{-\lambda W}).$$

Taking expectations gives

$$E[T] = \left(E[T] + \frac{1}{\lambda} \right) (1 - E[e^{-\lambda W}]).$$

so

$$E[T] = \frac{1 - E[e^{-\lambda W}]}{\lambda E[e^{-\lambda W}]}$$

Since W is a random variable with distribution F ,

$$E[e^{-\lambda W}] = \int_0^{\infty} e^{-\lambda w} f(w) dw.$$

Kittel Chapter 7 Solutions

A. M. Zagoskin



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Berkeley Physics Course: Mechanics, by C. Kittel, W. D. Knight, and M. A. Ruderman Charles Kittel, 1965 College physics course for students majoring in science and engineering

[An Introduction To Statistical Thermodynamics](#) Robert P H Gasser, Richards W Graham, 1995-09-26 Statistical thermodynamics plays a vital linking role between quantum theory and chemical thermodynamics yet students often find the subject unpalatable In this updated version of a popular text the authors overcome this by emphasising the concepts involved in particular demystifying the partition function They do not get bogged down in the mathematical niceties that are essential for a profound study of the subject but which can confuse the beginner Strong emphasis is placed on the physical basis of statistical thermodynamics and the relations with experiment After a clear exposition of the distribution laws partition functions heat capacities chemical equilibria and kinetics the subject is further illuminated by a discussion of low temperature phenomena and spectroscopy The coverage is brought right up to date with a chapter on computer simulation and a final section which ranges beyond the narrow limits usually associated with student texts to emphasise the common dependence of macroscopic behaviour on the properties of constituent atoms and molecules Since first published in 1974 as *Entropy and Energy Levels* the book has been very popular with students This revised and updated version will no doubt serve the same needs

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Sclerotherapy E-Book Mitchel P. Goldman, Robert A Weiss, 2016-09-19 This classic resource by Drs Mitchel P Goldman Robert A Weiss and Jean Jerome Guex provides highly practical up to date guidance for the effective management of varicose veins and other

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Electromagnetic Waves Carlo G. Someda, 2017-12-19 Adapted from a successful and thoroughly field tested Italian text the first edition of *Electromagnetic Waves* was very well received Its broad integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition Working from Maxwell's equations to applications in optical communications and photonics *Electromagnetic Waves Second Edition* forges a link between basic physics and real life problems in wave propagation and radiation Accomplished researcher and educator Carlo G Someda uses a modern approach to the subject Unlike other books in the field it surveys all major areas of electromagnetic waves in a single treatment The book begins with a detailed treatment of the mathematics of Maxwell's equations It follows with a discussion of polarization delves into propagation in various media devotes four chapters to guided propagation links the concepts to practical applications and concludes with radiation diffraction coherence and radiation statistics This edition features many new and reworked problems updated references and suggestions for further reading a completely revised appendix on Bessel functions and new definitions such as antenna effective height Illustrating the concepts with examples in every chapter *Electromagnetic Waves Second Edition* is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals

[Porcelain and Bone China](#) Sasha Wardell, 2020-02-10 Porcelain and bone china have fascinated patrons collectors and makers for centuries This

practical book looks at their composition making methods and decorative techniques as well as glazes and firing processes It examines their different characteristics and explains how designers have worked with these clays within the ceramic industry This new edition includes an additional chapter that introduces emerging technologies and new materials It is a beautiful book that gives an authoritative account of these enduring materials which ceramicists enjoy so passionately It includes over 250 colour illustrations of instructional photos and inspiring finished pieces

Tax Compliance and Risk Management

Piotr Karwat, Katarzyna Kimla-Walenda, Aleksander Werner, 2023-11-23 The concept of tax compliance is as old as the tax itself but staying compliant with tax regulations has become increasingly demanding A changing tax regulatory environment resulting from regulatory actions of the OECD the European Union and national governments poses many problems for tax compliance awareness This book explores various approaches to improving tax compliance Starting with the procedures and processes that are at the centre of the debate it includes the level of tax position security obtained as a result of cooperation between tax administration and an organisation ending with tax compliance requirements imposed by one sided action of tax administration Offering an experience and evidence based analysis of how tax compliance influences an organisation s tax and financial position the issues are examined from both a theoretical and a practical perspective using empirical research and case studies with an international dimension for illustration Emphasising a holistic approach to tax compliance and its role in tax risk management within an organisation this study offers a framework for making the challenging task of tax compliance and risk management more effective and more efficient Exploring tax compliance focusing on the tax world after the BEPS project and anti tax evasion and anti tax avoidance regulatory actions undertaken by the European Union and OECD the book has a practical focus on tax system design within the organisation and will be of interest to students researchers and practitioners working in the areas of tax law and tax compliance Chapter 13 and Summary of this book are freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

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Stanley A. Morain, 1999 The use of geographic information systems GIS is exploding worldwide in both number and scope This book outlines the advent of GIS in natural resource management and explores how various data sets are applied to specific areas of study Topics include spatial and non spatial domains multi scale framework and resource data environmental demographic and economic indicators and modeling

Notes on Solid State Physics

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, 2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to understand each other s research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief

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Techniques of Electrochemistry Ernest B. Yeager, Alvin J. Salkind, 1972
Entropy and Energy Levels Robert Paul Holland Gasser, William Graham Richards, 1974
Sclerotherapy Mitchel P. Goldman, John J. Bergan, 2007 This edition provides the comprehensive coverage of all aspects of sclerotherapy and surgical treatment of varicose and telangiectatic leg veins It has been completely revised with all figures and drawings now in full color It provides extensive discussions of the latest techniques solutions and possible complications
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Varicose Veins, Related Diseases, and Sclerotherapy H. I. Biegeleisen, 1984
Berkeley Physics Course: Quantum physics, by E. H. Wichmann Charles Kittel, 1965 Introductory college physics course for students majoring in science and engineering
Current Engineering Practice, 1979

Reviewing **Kittel Chapter 7 Solutions**: Unlocking the Spellbinding Force of Linguistics

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