

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 ,

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

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JE Gale



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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

Quantum Engineering A. M. Zagoskin, 2011-07-14 Quantum engineering the design and fabrication of quantum coherent structures has emerged as a field in physics with important potential applications This book provides a self contained presentation of the theoretical methods and experimental results in quantum engineering The book covers topics such as the quantum theory of electric circuits theoretical methods of quantum optics in application to solid state circuits the quantum theory of noise decoherence and measurements Landauer formalism for quantum transport the physics of weak superconductivity and the physics of two dimensional electron gas in semiconductor heterostructures The theory is complemented by up to date experimental data to help put it into context Aimed at graduate students in physics the book will enable readers to start their own research and apply the theoretical methods and results to their current experimental situation

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

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 vascular anomalies It is an indispensable reference for a wide audience including dermatologists invasive radiologists family practitioners vascular and cosmetic surgeons Clearly written by global experts Sclerotherapy 6th Edition helps those new to the field to gain a firm understanding of successful techniques as well as showing seasoned practitioners how to improve and hone their skills with today s best and newest approaches Case studies and detailed color illustrations offer step by step visual guidance Covers everything you need to know with a practical approach from the pathogenesis of varicosities to diagnostic and treatment options including evidence based decision making Helps you optimize outcomes and improve your

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The Science of Hysteresis: Physical modeling, micromagnetics, and magnetization dynamics Giorgio Bertotti, I. D. Mayergoyz, 2006 Volume 1 covers Mathematical models Differential equations Stochastic aspects of hysteresis Binary detection using hysteresis Models of unemployment in economics Volume 2 covers Physical models of magnetic hysteresis All aspects of magnetisation dynamics Volume 3 covers Hysteresis phenomena in materials Over 2100 pages rich with supporting illustrations figures and equations Contains contributions from an international list of authors from a wide range of disciplines Covers all aspects of hysteresis from differential equations and binary detection to models of unemployment and magnetisation dynamics

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

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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

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Notes on Solid State Physics Charles Kittel, 1951

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Table of Contents Kittel Chapter 7 Solutions

1. Understanding the eBook Kittel Chapter 7 Solutions
 - The Rise of Digital Reading Kittel Chapter 7 Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Kittel Chapter 7 Solutions
 - 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 Kittel Chapter 7 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kittel Chapter 7 Solutions

- Personalized Recommendations
 - Kittel Chapter 7 Solutions User Reviews and Ratings
 - Kittel Chapter 7 Solutions and Bestseller Lists
5. Accessing Kittel Chapter 7 Solutions Free and Paid eBooks
 - Kittel Chapter 7 Solutions Public Domain eBooks
 - Kittel Chapter 7 Solutions eBook Subscription Services
 - Kittel Chapter 7 Solutions Budget-Friendly Options
 6. Navigating Kittel Chapter 7 Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Kittel Chapter 7 Solutions Compatibility with Devices
 - Kittel Chapter 7 Solutions Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Kittel Chapter 7 Solutions
 - Highlighting and Note-Taking Kittel Chapter 7 Solutions
 - Interactive Elements Kittel Chapter 7 Solutions
 8. Staying Engaged with Kittel Chapter 7 Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Kittel Chapter 7 Solutions
 9. Balancing eBooks and Physical Books Kittel Chapter 7 Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Kittel Chapter 7 Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Kittel Chapter 7 Solutions
 - Setting Reading Goals Kittel Chapter 7 Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Kittel Chapter 7 Solutions

- Fact-Checking eBook Content of Kittel Chapter 7 Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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