

Chapter 6, Problem 2.

A 20- μF capacitor has energy $w(t) = 10 \cos^2 377t$ J. Determine the current through the capacitor.

Chapter 6, Solution 2.

$$w = \frac{1}{2} C v^2 \quad \longrightarrow \quad v^2 = \frac{2W}{C} = \frac{20 \cos^2 377t}{20 \times 10^{-6}} = 10^6 \cos^2 377t$$

$v = \pm 10^3 \cos(377t)$ V, let us assume the $v = +\cos(377t)$ mV, this then leads to,

$$i = C(dv/dt) = 20 \times 10^{-6} (-377 \sin(377t) 10^{-3}) = \underline{\underline{-7.54 \sin(377t) \text{ A}}}$$

Please note that if we had chosen the negative value for v , then i would have been positive.

Chapter 6, Problem 8.

A 4-mF capacitor has the terminal voltage

$$v = \begin{cases} 50 \text{ V}, & t \leq 0 \\ A e^{-1000t} + B e^{-6000t} \text{ V}, & t \geq 0 \end{cases}$$

If the capacitor has initial current of 2A, find:

- the constants A and B ,
- the energy stored in the capacitor at $t = 0$,
- the capacitor current for $t > 0$.

Chapter 6, Solution 8.

$$(a) \quad i = C \frac{dv}{dt} = -100ACe^{-1000t} - 600BCe^{-6000t} \quad (1)$$

$$i(0) = 2 = -100AC - 600BC \quad \longrightarrow \quad 5 = -A - 6B \quad (2)$$

$$v(0^+) = v(0^-) \quad \longrightarrow \quad 50 = A + B \quad (3)$$

Solving (2) and (3) leads to

$$\underline{\underline{A=61, B=-11}}$$

$$(b) \quad \text{Energy} = \frac{1}{2} C v^2(0) = \frac{1}{2} \times 4 \times 10^{-3} \times 2500 = \underline{\underline{5 \text{ J}}}$$

(c) From (1),

$$i = -100 \times 61 \times 4 \times 10^{-3} e^{-1000t} - 600 \times (-11) \times 4 \times 10^{-3} e^{-6000t} = \underline{\underline{-24.4e^{-1000t} + 26.4e^{-6000t} \text{ A}}}$$

Chapter 6, Problem 9.

Chapter 6 Problem 2

Peter Liljedahl



Chapter 6 Problem 2:

Lippincott's Illustrated Q&A Review of Histology Guiyun Zhang, Bruce A. Fenderson, 2014-06-21 Lippincott's Illustrated Q A Review of Histology is a resource for students engaged in histology course review and test preparation for the USMLE Step 1 and COMLEX It contains more than 1 000 USMLE style and content recall questions with images for approximately 40% of the questions

Building Thinking Classrooms in Mathematics, Grades K-12 Peter Liljedahl, 2020-09-28 A thinking student is an engaged student Teachers often find it difficult to implement lessons that help students go beyond rote memorization and repetitive calculations In fact institutional norms and habits that permeate all classrooms can actually be enabling non thinking student behavior Sparked by observing teachers struggle to implement rich mathematics tasks to engage students in deep thinking Peter Liljedahl has translated his 15 years of research into this practical guide on how to move toward a thinking classroom Building Thinking Classrooms in Mathematics Grades K 12 helps teachers implement 14 optimal practices for thinking that create an ideal setting for deep mathematics learning to occur This guide Provides the what why and how of each practice and answers teachers most frequently asked questions Includes firsthand accounts of how these practices foster thinking through teacher and student interviews and student work samples Offers a plethora of macro moves micro moves and rich tasks to get started Organizes the 14 practices into four toolkits that can be implemented in order and built on throughout the year When combined these unique research based practices create the optimal conditions for learner centered student owned deep mathematical thinking and learning and have the power to transform mathematics classrooms like never before

Fractions Workbook, Grade 5 Spectrum, 2013-12-02 Spectrum R Fractions for grade 5 is designed to completely support and challenge fifth graders to master fractions This 96 page math workbook goes into great depth about fractions and provides a wide range of examples practice problems and assessments to measure progress Builds a foundation in adding subtracting multiplying and dividing fractions Step by step examples introduce new concepts Pretests and Posttests to measure progress Problem solving and critical thinking exercises Correlated to the Common Core Standards Answer key The best selling Spectrum R workbooks provide students with focused practice based on the essential skills they need to master for Common Core success With explicit skill instruction step by step examples ample practice as well as assessment tools for progress monitoring students are provided everything they need to master specific math skills Skill specific Spectrum R workbooks are the perfect supplement for home or school

[Outline of Instruction...orientation, Gunnery, Material...](#) Artillery School (Fort Monroe, Va.), 1918

Operations Research for Social Good Natalia Summerville, Rob Pratt, 2023-10-12 Advance your knowledge of operations research and social good Recent technological developments allow data analytics practitioners to solve large problems better and faster with state of the art artificial intelligence AI tools At the same time humanity faces overarching challenges such as the climate crisis child malnutrition systemic racism and global pandemics among others Operations Research for Social Good A Practitioner s

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QUANTITATIVE TECHNIQUES FOR DECISION MAKING GUPTA, M. P.,KHANNA, R. B.,2011-02 This thoroughly revised and well received book now in its Fourth Edition continues to give an in depth and incisive analysis of the various mathematical techniques required for managers in their decision making process The book provides a clear understanding of the practical utility of mathematical modelling and techniques such as linear programming integer programming goal programming dynamic programming inventory models decision theory game theory network analysis queuing simulation and Markov analysis for solving real life problems The book lays emphasis on the practical applications of the techniques rather than their rigorous mathematical treatment It also discusses probability and probability distributions essential to tackling the everyday uncertainties of life The book is primarily intended as a textbook for undergraduate and postgraduate students of management postgraduate students of commerce students of Master of Financial Control MFC course and undergraduate students of industrial and production engineering In addition practising managers will also find the book immensely helpful in their day to day decision making process New to This Edition A section describing the construction of activity on node AON networks for CPM and PERT networks has been included considering that most software designed for network analysis plot networks in this format An appendix on Mathematics for Managers which includes the topics of Matrix Algebra and Differential Calculus New solved and unsolved problems The book is recommended by AICTE for PGDM course The link is www.aicteindia.org/modelsyllabus.php

School & Society James McKeen Cattell,Will Carson Ryan,Raymond Walters,1930

Computer-aided Circuit Analysis Using PSpice Walter Banzhaf,1992 This accessible guide to PSpice prepares the reader to perform circuit analysis on a computer It explains the basic concepts clearly and follows up with an in depth treatment of advanced topics Over 60 detailed examples of PSpice circuit analysis are presented

Applied Mechanics Frederic Nixon Weaver,1930

The Rainbow Bridge Raymond L. Lee,Alistair B. Fraser,2001 Venerated as god and goddess feared as demon and pestilence trusted as battle omen and used as a proving ground for optical theories the rainbow s image is woven into the fabric of our past and present From antiquity to the nineteenth century the rainbow has played a vital role in both inspiring and testing new ideas about the physical world Although scientists today understand the rainbow s underlying optics fairly

well its subtle variability in nature has yet to be fully explained Throughout history the rainbow has been seen primarily as a symbol of peace covenant or divine sanction rather than as a natural phenomenon Lee and Fraser discuss the role the rainbow has played in societies throughout the ages contrasting its guises as a sign of optimism bearer of Greek gods messages of war and retribution and a symbol of the Judeo Christian bridge to the divine The authors traverse the bridges between the rainbow s various roles as they explore its scientific artistic and folkloric visions This unique book exploring the rainbow from the perspectives of atmospheric optics art history color theory and mythology will inspire readers to gaze at the rainbow anew For more information on The Rainbow Bridge visit [Principles of Accounting](#) Harry Anson Finney,1923

The Principles of Sanitary Tactics Edward Lyman Munson,1917 **Rural Manhood** Henry Israel,1914 **The Churchman's Family Bible** ,1883 A Treatise on the Law of Trials in Actions Civil and Criminal Seymour Dwight Thompson,1912 The Epistle of Paul the Apostle to the Romans ,1888 **Supplement, 1913- to Bliss' Annotated N.Y. Code of Civil Procedure, 6th Ed. and Stover's Annotated Code of Civil Procedure of New York** New York (State),1919
The Church School Journal ,1889 **Journal of the Senate of the ... General Assembly of the State of Ohio ...** Ohio. General Assembly. Senate,1923

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- Chapter 1: Introduction to Chapter 6 Problem 2
- Chapter 2: Essential Elements of Chapter 6 Problem 2
- Chapter 3: Chapter 6 Problem 2 in Everyday Life
- Chapter 4: Chapter 6 Problem 2 in Specific Contexts
- Chapter 5: Conclusion

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https://rehabmart.x-shops.com/files/publication/HomePages/X2_The_Blueat_Station_Guide.pdf

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