

Chapter 7: Study Guide

- **Primary exposure factors** are selected by the radiographer on the control panel: mA, exposure time, and kVp.
- **Secondary factors:**
 - Focal spot size
 - Source-image receptor-distance (SID)
 - Object-image receptor-distance (OID)
 - Central ray-anatomic part-image receptor alignment
 - Grids
 - Beam restriction
 - Generator output
 - Tube filtration
 - Compensating filters
 - Patient factors
- mAs is the product of mA and exposure time in seconds. Increasing mAs will increase the quantity of radiation reaching the IR and vice versa.
- mA and exposure time have an **inverse proportional relationship** when maintaining mAs. If one is increased, the other must be decreased.
- kVp affects the exposure to the IR because it alters the amount and penetrating ability of the x-ray beam. kVp also affects the subject contrast displayed in the image.
 - High kVp will result in less transmission differences between adjacent tissues, which means that an image with lower contrast will be produced.
 - Lower contrast images have a long grayscale (many shades of gray are displayed).
 - Low kVp increases the transmission differences between adjacent tissues, which means that an image with high contrast will be produced.
 - High contrast images have a short grayscale (less shades of gray are displayed).
- **15% Rule:** increasing the kVp by 15% will have the same effect on the image as doubling the mAs. Decreasing the kVp by 15% will have the same effect as halving the mAs.
- To maintain the exposure when using the 15% rule, the mAs must be adjusted by a factor of 2 accordingly. If the kVp is increased by 15%, then the mAs must be decreased by a factor of 2, to maintain the same exposure. Decreasing the kVp by 15%, will require that the mAs be increased by a factor of 2.
- Focal Spot size determines the filament that will be energized during x-ray production. A small focal spot size ranges from 0.5mm to 0.6mm. This focal spot will lead to less unsharpness in the image (x-rays are more concentrated), and thus will lead to a higher spatial resolution. A large focal spot ranges from 1mm to 1.2mm. The large focal spot is used when larger body parts need to be imaged. It will increase image unsharpness, and thus will decrease spatial resolution.
- Source to image receptor distance (SID) is the distance between the radiation source and the image receptor.
 - The relationship between SID and intensity is best described by the **inverse square law**. This law states that the intensity of an x-ray beam is **inversely proportional to the square of the distance** from the source.
 - As SID increases, the intensity of the beam decreases. (This is because the x-rays are spread over a larger area due to the divergence of the beam).

Chapter 7 Physics Study Guide

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M. Hazen**



Chapter 7 Physics Study Guide:

Fundamentals Of Solid-state Electronics: Study Guide Chih Tang Sah,1994-02-08 This companion to Fundamentals of Solid State Electronics provides a helpful summary of the main text for students and lecturers alike The clear typeface large font and point form layout are designed to produce viewgraphs for lectures and to provide ample margins for study notes This Study Guide comes complete with a detailed description of two one semester solid state electronics core courses taught to about 80 100 sophomore junior students each time four years apart It links the contents of the one semester lecture course to the textbook Study Guide to Accompany Sears, Zemansky, Young, University Physics, Sixth Edition James R. Gaines,1982 Student Study Guide for General Physics with Bioscience Essays Jerry B. Marion,1978 Invitation to Oceanography Paul R. Pinet,2009 Thoroughly updated to include the most recent and fascinating discoveries in oceanography the Fifth Edition takes great strides to be the most up to date comprehensive and student friendly resource available today Its content continues to span the four major divisions of ocean science geology chemistry physics and biology while maintaining the conversational voice for which it is acclaimed The Fifth Edition boasts many exciting updates including a new chapter on global climate change that educates students on global warming in the 21st century and its likely impact on ocean systems With new end of chapter questions new color photographs and illustrations and an expanded assortment of Selected Readings Invitation to Oceanography is a must have in any marine science classroom *SCM Studyguide to Science and Religion* Jean Dorricott,2005 This undergraduate level one textbook provides an introduction to the apparently incompatible subjects of religion and science Each chapter contains references for finding out more about particular arguments be they scientific or religious areas for discussion Where particularly difficult concepts are referred to in the body of the text further explanations are provided in boxed sections The Sciences, Study Guide James Trefil,Anthony J. Gaudin,Robert M. Hazen,2000-11-24 The Sciences An Integrated Approach 3e is the only text on the market for the integrated science course It integrates physics chemistry astronomy earth sciences and biology for students with little or no science background The new third edition builds on the successful previous edition by incorporating changes that meet reform curriculum guidelines Given the dynamic nature of the science disciplines covered in Trefil s text updated content is critical The new third edition has thoroughly updated content throughout bringing the most up to date discoveries to the students in all five disciplines its broad approach that covers such a variety of the science disciplines updated content is crucial This revision has several significant changes URL s are included at the ends of each chapter many of the Science News boxes are updated to show hot topics *Invitation to Oceanography* , **SCM Studyguide: Church History** Stephen Spencer,2013-08-27 An introduction to the study of the ways the church has evolved in its corporate life since its birth in the first century Special attention is given to studying its changing relationship and interaction with the surrounding societies in which it has existed The intended readership will be those training for ministry in English speaking churches so

the studyguide will concentrate on those aspects of this subject of most relevance to this group This means there will be greater attention to developments in the West than in the East especially in later centuries and to topics such as the nature of ministry the sacraments places of worship authority in the church and mission These will be examined at each period of church history in each chapter to provide reference points of comparison throughout the book Each chapter will also contain a specific case study presenting extracts of some key documents with notes commentary and questions for discussion to allow readers to develop skills in historical research General discussion questions and reading lists will be provided at the end of each chapter The final chapter will provide guidance for the study of the history of the student s own church and community

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