



Initial Certification in Medical Physics

Part 1 Content Guides and Sample Questions

PLEASE NOTE: List of Constants and Physical Values for Use on the Part 1 Physics Exam

The ABR provides candidates with a list of constants, physical values, and related information, which can be found on [this page](#). While the list includes many constants and physical values, the ABR does not warrant the list as a compilation of all constants and physical values needed on the exams. Candidates should review the list carefully before their exams to familiarize themselves with the contents and list organization.

Content Guides

The content of all ABR exams is determined by a panel of experts who select the items based on a content guide that the ABR publishes. The content guides are assembled using guidance from medical physics organizations. The content guides are general documents, and individual exam items may not appear to be exactly congruent with the content listed in the guide. In addition, since there is only a limited number of items on any exam, selected items will only be a sample from the larger domain of the content guide.

Part 1: General Content Guide

- **Atomic / Nuclear Physics, Sources of Radiation, Interaction of Radiation with Matter**
 - Basic atomic and nuclear physics
 - Radioactivity
 - Sources of radioactive material
 - Radioactive material uses and safety
 - Radiation generating equipment: photons, electrons and heavy particles
 - Interactions of photon and particle radiation with matter
 - Dosimetry concepts and units
 - Spatial distribution/transmission of radiation (photons, protons and electrons)
- **Radiation Instrumentation and Measurement**
 - Gas-filled detectors
 - Scintillation detectors
 - Solid state detectors
 - Neutron detectors
 - Emerging and miscellaneous detectors

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Old Testament Study Guide, Pt. 1 Randal S. Chase, 2010-12-01 Genesis to Numbers This volume is the first of three on the Old Testament It begins with a discussion of the importance of studying the Old Testament and the role of Jesus Christ in the Plan of Salvation and His selection as our Savior in the premortal council in heaven We read concerning the process of creation the placing of Adam and Eve in the Garden of Eden and their fall into mortality We learn briefly about Cain and Abel followed by brief discussions of all the patriarchs from Adam to Abraham Isaac and Jacob We follow the story of Joseph in Egypt followed by the migration of Jacob's family to that land for survival We read of the rise of Moses the Exodus and the events at Mt Sinai Then we study the rebellion of the children of Israel and their wandering in the wilderness for 40 years The cover features a beautiful image of Abraham's Journey from Ur to Canaan painted by Jozsef Molnar in 1880 **New**

Testament Study Guide, Pt. 1 Randal S. Chase, 2010-12-01 New Testament Study Guide Pt 1 The Life Ministry of Jesus Christ This volume is the first of three on the New Testament It covers the life of Christ from his premortal selection as the Lamb of God through His birth and childhood Then we follow the Master during the first year of His ministry as He is tempted baptized performs miracles selects Twelve Apostles and then teaches with parables and in the Sermon on the Mount During the second year of His ministry He teaches the Bread of Life sermon is transfigured and bestows priesthood keys to the Twelve He finishes the second year of His ministry at Jerusalem where He declares Himself to be the Light of the World the Son of God and the Messiah The cover features the classic image of The Sermon on the Mount painted by Carl Heinrich Bloch in 1890 Otolaryngology Study Guide Nikolaos Tsetsos, Marios Stavrakas, Konstantinos Garefis, 2025-03-07 The book

presents a case based review of Otolaryngology Head and Neck Surgery guiding readers step by step through the principles of safe care Each chapter begins with an abstract followed by a case presentation and multiple choice questions MCQs with brief answers on diagnosis workup differential diagnosis treatment surgical procedures and follow up Accompanied by color figures tables summarizing key technical steps drawings and algorithms the volume presents information in a format that is easy to understand and remember Given its features the book is an ideal study guide for ENT trainees senior ENT residents and fellows preparing for board examinations as well as a quick reference for all ENT surgeons who wish to test and improve their knowledge using the latest available evidence based references and data **Core Tax Legislation and Study Guide**

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