

# ULTRASOUND PHYSICS REVIEW

If the output power setting is at 50% and this indicates 0dB, increasing the power by: - 3dB will increase the power output by a factor of 2

An increase in power of 3dB indicates an increase of 2X the original power. Every 3dB that the power increases will double the power output.  $50\% \times 2 = 100\%$

The doppler tracing demonstrates electrical noise. How can you reduce or eliminate this artifact? - Increase the wall filter settings

Noise can be reduced by decreasing doppler gain, increasing wall filter settings or trying another wall outlet.

Which of the following is true regarding the Curie point of a piezoelectric element? - If the active PE crystal is heated to this temperature, the element will lose its piezoelectric properties.

Certain ceramic elements can be polarized by heating them above their Curie point. If the active element is heated again, it will lose its piezoelectric properties

What dimension of the mass is being measured on this image? - AP

The spatial resolution on a CRT monitor is directly related to: - The number of lines per frame

The vacuum tube TV (CRT) monitor interfaces two fields together to form an image frame. The more lines in each field, the better the spatial resolution on the image

What system component is not needed when an LCD monitor is used? - digital to analog converter

LCD monitors accept the digital signal and do not need the component

The matching layer for a txd is usually made of plastic and its approx: -  $\frac{1}{4}$  of the probe wavelength in thickness

If the radius of a blood vessel decreases by 50% what happens to the flow volume? - decreases by 16

Radius decreases by  $\frac{1}{2}$ , flow volume decreases by 2 to the fourth power (16x); if the radius decreases to  $\frac{1}{4}$  original size, the flow volume decreases by 3 to the fourth power (81x). Note the significant change in flow value from, a 50% reduction in radius to a 66% reduction in radius

Why is there no color flow displayed in the right hepatic vein: - The blood flow is perpendicular to the beam at the zero degree angle and undetectable

# Ultrasound Physics Review Questions

**Lorraine M. Sdrales, Manuel Pardo**



## **Ultrasound Physics Review Questions:**

**Review Questions for Ultrasound** J.A. Miller, 2018-12-18 This is a comprehensive large format review text with complete answers for the American national examination of the Registry of Diagnostic Medical Sonographers RDMS It contains 600 questions divided evenly between sections on physics the abdomen and small parts and obstetrics and gynecology The authors combine many years of experience teaching diagnostic ultrasound and provide illustrative scans and drawings for added comprehension

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way You can increase your chances to pass Ultrasound Physics and Instrumentation SPI exam by memorizing these questions and answers After studying this study guide review you will feel confident and will be able to answer most of the questions easily which appear on the ARDMS Sonographic Principles and Instrumentation Exam The Pass Ultrasound Physics Exam Study Guide Notes Volume II will be a great compliment to this study guide review and I highly recommend it if you are preparing to sit for ARDMS Sonographic Principles and Instrumentation exam Ultrasound Physics Review Cindy Owen,James A. Zagzebski,2009 Looking for guidance and a clear understanding of the principles and facts on which you will be tested Here is the new SPI edition of the single bestselling mock exam devoted to the ARDMS exam in ultrasound physics Written by an internationally renowned sonographer who not only loves ultrasound physics but delights in and excels at explaining it to others Ultrasound Physics Review hones your test taking skills measures your progress as you study and reveals your strengths and weaknesses topic by topic Contains 600 complex registry style questions that cover and follow the new ARDMS Sonography Principles and Instrumentation SPi outline 65 image based questions and simple clear explanations with current references for further study Coverage includes patient care safety and communication physical principles ultrasound transducers pulse echo instrumentation Doppler instrumentation and hemodynamics and quality assurance quality control of equipment all in the same proportion as in the exam itself From publisher s description **Ultrasound Physics and Instrumentation** David L. Hykes,Wayne R. Hedrick,Dale E. Starchman,1992 Whether you re a student a technologist or a physician you ll benefit from the easy to understand explanations of everything you need to know about ultrasound physics all found in Ultrasound Physics and Instrumentation Fourth Edition BOOK JACKET **Ultrasound Physics Review** Cindy Owen,James A. Zagzebski,2000 **Essential Clinical Anesthesia Review** Linda S. Aglio,Robert W. Lekowski,Richard D. Urman,2015-01-08 An evidence based board review book organized according to the ABA keyword list with concise discussion and clinical review questions and answers *Critical Care Echocardiography Review* Marvin G Chang,Abraham Sonny,David Dudzinski,Christopher R Tainter,Ryan J Horvath,Sheri Berg,Edward Bittner,2021-10-06 Prepare for success on the Examination of Special Competence in Critical Care Echocardiography CCEeXAM Critical Care Echocardiography Review is a first of its kind review textbook containing over 1 200 questions and answers Helmed by Drs Marvin G Chang Abraham Sonny David Dudzinski Christopher R Tainter Ryan J Horvath Sheri M Berg Edward A Bittner as well as a team of associated editors and authors from institutions across the nation this highly visual resource covers every aspect of the use of ultrasound for clinical diagnosis and management in the critical care setting providing a thorough effective review and helping you identify areas of mastery and those needing further study **Journal of Diagnostic Medical Sonography** ,2002 **Musculoskeletal Ultrasound in Rheumatology Review** Minna J. Kohler,2016-11-24 This book provides a comprehensive clinical review of diagnostic and interventional applications of musculoskeletal ultrasound at the point of care As more rheumatologists and other musculoskeletal providers in training and in practice learn the skill of

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Examination Review for Ultrasound: Sonographic Principles & Instrumentation Traci B Fox, Stephen M Penny, 2024-09-05 Prepare for and excel on the Sonography Principles and Instrumentation SPI certification examination offered by the ARDMS Traci B Fox and Steven M Penny s Examination Review for Ultrasound Sonographic Principles Instrumentation 3rd Edition focuses only on the content you ll encounter on the exam saving you valuable study time Now in full color throughout it uses a concise narrative approach aligns with the SPI revised content outline and format and features an online exam simulator with hundreds of registry style questions *Radiologic Physics Taught Through Cases* Jonathon Nye, 2019-12-12 High yield image rich study guide presents complex physics concepts in reader friendly format Physics is a key component of the American Board of Radiology core and certifying exams therefore it is an essential area of study for radiology residents and young radiologists prepping for these exams Radiology residents gather their medical physics knowledge from many sources often beginning with their first encounter of a radiologic image As such Radiologic Physics Taught Through Cases by Jonathon A Nye and esteemed contributors incorporates an image rich case based layout conducive to learning challenging physics concepts The book encompasses physical diagnostic radiology scenarios commonly encountered during residency in a format that fosters learning and is perfect for board preparation Seven technology specific chapters cover fluoroscopy mammography computed tomography magnetic resonance imaging nuclear medicine ultrasound imaging and image processing Each chapter features 10 succinct case based topics intended to quickly convey information Key Highlights Every chapter starts with a general introduction followed by case background images findings and a brief explanation of the physical factors underlying the image s creation and displayed contrast Schematics detail important radiation safety topics such as potential occupational or patient hazards related to fluoroscopic guided procedures End of chapter references provide inspiration for further study Review questions with correct answers at the end of each chapter reinforce key concepts This is a must have resource for residents prepping for the radiology core exam review and early career radiologists looking for a robust study guide for radiology certification exam review Echocardiography Board Review Ramdas G. Pai, Padmini Varadarajan, 2014-05-12 Echocardiography Board Review 2nd Edition 500 Multiple Choice Questions with

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