

2006 "Ultrasound: Physical Principles and Medical Applications"

"אולטראסאונד: עקרונות פיסיקליים ויישומים רפואיים"

by: Haim Azhari

Synopsis: This book provides the basic physical and engineering principles of ultrasound in the context of medical applications. The book starts with a basic description of waves and their mathematical description. It then analyzes the propagation of mechanical waves in rods, strings, fluids and solids. Attenuation reflection and transmission are then described. Then, the design principles of acoustic lenses and mirrors are outlined followed by the description of ultrasonic transducers and the calculation of their acoustic fields. Three chapters are then dedicated to the various imaging techniques (including also Doppler measurements). And finally safety and therapeutic applications are discussed.

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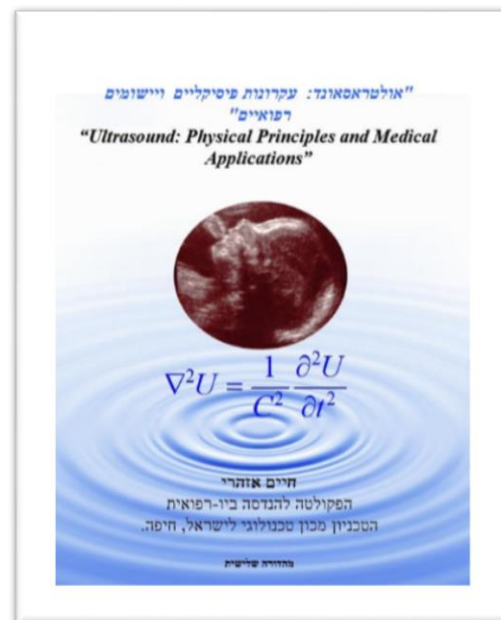
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