

Pressure Oscillation in Biomedical Diagnostics and Therapy Ahmed Al-Jumaily

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complete and comprehensive reference on the principles of diagnostic and therapeutic techniques using pressure oscillation pressure oscillation in biomedical diagnostics and therapy presents key findings in imaging diagnostics and therapies using high and low frequency pressure waves in a concise and easy to understand way focusing primarily on the cardiovascular and pulmonary systems that utilize acoustics mechanical wave motion the work provides basic background in relevant acoustic theory as well as specific technical information associated with modern medical applications low frequency acoustics pressure oscillation and some aspects of ultrasound radiation force are also reviewed the principles in the work can be extended to include other areas relating to materials and metal diagnostics to allow for maximum reader comprehension regardless of current expertise on the subject each chapter includes a brief history current developments and practical applications of the topic covered within furthermore all chapters are based on engineering and physiological principles to deliver practical technologies sample topics covered in the work include fundamental principles of pressure oscillation po discussing the basic principles of pressure oscillation and how they can be formulated into mathematical equations po in imaging techniques discussing the basic principles of converting pressure oscillation to a tool in biomedical imaging lung mechanics discussing how each part of the lung is associated with various diseases and how po can target these parts asthma discussing the basic concepts of asthma the importance of airway smooth muscle asm and dynamic behavior of asm pressure oscillation in biomedical diagnostics and therapy links pressure oscillation po and biomedical diagnostics and therapy for scholars and practitioners it is an essential resource for all professionals who wish to be on the cutting edge of treating lung diseases such as obstructive sleep apnea asthma and respiratory distress syndrome

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