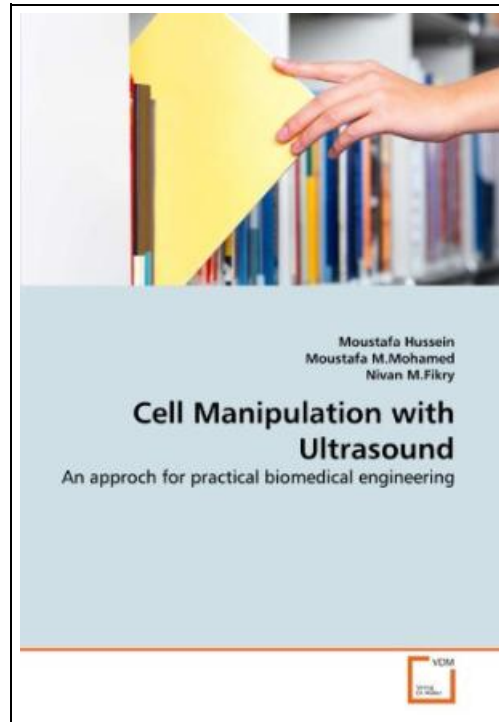


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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | An approach for practical biomedical engineering | Design and Construction of a home-made ultrasound trapping device to manipulate and separate cells were conducted using ultrasound standing waves pattern created within the chamber between the source and the stainless steel reflector in the other side of the chamber. The effect of number of experimental conditions on trapping efficiency was conducted e.g. Wave intensity, Power, and application time. The performance two ultrasonic trapping chambers, cylindrical and cuboidal, at different intensities continuous wave ultrasound were investigated. The effect of media concentration on trapping time and velocity of the cell was investigated on colloidal and normal aqueous solutions with different concentration and different type of gels. The whole performance of the experimental conditions was conduct on three different biological cell types with different physical criteria (Yeast, Red blood cells, and E.coli). Monitoring of the cells behavior ring ultrasonic manipulation by using three simple techniques (light microscopy, dielectric measurement and optical absorption technique) was studied. | Format: Paperback | Language/Sprache: english | 88 pp.

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