

Ehsan Naderian

Resumé

Education

2016–2019 **Master of Mechatronic Engineering**, *K. N. Toosi University of Technology*, Tehran, 16.48.

2012–2015 **Bachelor of Mechanical Engineering**, *K. N. Toosi University of Technology*, Tehran, 14.77.

Master thesis

title Application of Ultrasonic Waves for Enhancement of Skin Permeabilty

supervisors Prof. Farhang Honarvar & Prof. Hamid Abrishami Moghadam

description Transient cavitation induced by low-frequency ultrasound (called Sonophoresis) increases skin permeability to a wide range of therapeutic compounds.

Bachelor thesis

title Modeling of Horizontally Polarized Shear Waves in A Plate by Finite Element Method

supervisors Prof. Farhang Honarvar

description Propagation of SH (Shear Horizpntal) guidede wave in a defected plate is modeled by using FEM in ABAQUS software package, then its capability of detecting some defects has been explored.

Experience

Vocational

2018–2019 Research Assistant, NDE Lab, Tehran.

2017–2019 Book Editor, K. N. Toosi University, Tehran.

Miscellaneous

2018–2019 Custom Design and Manufacturing of Experimental Setup for In-Vitro Sonophoretic Drug Delivery, *NDE Lab*, Tehran, 100%.

2017–2018 Application of Principal Component Analysis for Identification of The LDR Frequency, NDE Lab, Tehran, 50-60%.

□ 09359399472 • ☑ e.naderian@email.kntu.ac.ir Telegram:@enad9231

- 2017–2018 Automated Scan of Thin Plate for Detection of Defect's Pattern, Size and Location, *NDE Lab*, Tehran, 30-40%.
- 2018–2019 **Design and Manufacturing Tensile Test Machine for Biological Samples**, *NDE Lab*, Tehran, 20-30%.

Computer skills

C# Visual Studio Matlab Contol, Image & Signal

C Arduino LATEX Xepersian, Tikz

G Labview SolidWorks Design, Assembly

Interests

Ultrasound NDT, Medical, Imaging

Control Automation

PCBs Design, Assembly, Programming

Machine Artifitial Nueral Network

Learning

FEM Acoustic