

Seyyede Shahrzad Tabatabaei

Personal info

School of Mechanical, Industrial and Aerospace Engineering (MIAE), Concordia University, Montreal, Quebec, Canada

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Computer Skills

MATLAB
CATIA
Programming in C++
Gambit and Fluent

Language Proficiency

English (TOEFL iBT: 113, Oct. 2016)
General GRE (VR:148, Q:164, AW:3)
French: Basic
Arabic: Elementary

Professional Membership

Member of Iranian Society of Mechanical Engineering (2012-2014)

References

Available upon request

Profile

I am a PhD student and currently work on nonlinear dynamics of flexible structures in axial flow taking into account the effects of imperfections in both analytical and experimental ways. My research interests mainly include nonlinear dynamics, FSI, flow-induced vibration, aeroelasticity and CFD.

Education

- 2008-2013: B.S. in Mechanical Engineering; School of Mechanical Engineering, Iran, University of Science and Technology (IUST), Tehran, Iran
Total GPA: 15.85/20
B.S. Thesis: Enhancement of a Natural Laminar Flow Airfoil Performance
Supervisor: Dr. Mohammadi, Bijan
- 2014-2016: M.S. in Mechanical Engineering; School of Mechanical Engineering, Iran, University of Science and Technology (IUST), Tehran, Iran
Total GPA: 17.75/20
M.S. Thesis: Pool Boiling Enhancement of Copper Surfaces Using Micro and Nanostructures
Supervisors: Dr. Saffari, Hamid, Dr. Hosseinalipour, Mostafa
- 2017-Present: PhD in Mechanical Engineering; Department of Mechanical, Industrial and Aerospace Engineering (MIAE), Concordia University, Montreal, Quebec, Canada
Total GPA: 4/4.3
PhD Dissertation: Nonlinear Dynamics of Flexible Structures in Axial Flow Taking Into Account the Effects of Imperfections
Supervisor: Dr. Kheiri, Mojtaba

Publications

- M. Gheitaghy, S. Sh. Tabatabaei, H. Saffari, G. Q. Zhang, "Thermally induced oxidative growth of copper oxide nanowire on dendritic micropowder and reductive conversion to copper nanowire", Micro & nano letters, Vol. 11, No. 8, pp. 412 – 415, 2016 (**published ISI paper**)
- A. M. Gheitaghy, H. Saffari, S. Arshadi, S. Sh. Tabatabaei, "Prediction of Nucleate Pool Boiling on Hydrophilic Surfaces by Considering the Dynamic Contact Angle Effect on Isolated Bubble" Heat Transfer Research journal, submitted Jun 2016 (**published ISI paper**)

Honors and Awards

- Winner of Concordia University International Tuition Award of Excellence valued at approximately \$36,000 (Sep. 2017 – Sep. 2021)
- Golden Key International Honor Society member (Sep. 2018 - Present)
- Ranked 2nd among the M.S. students of graduating class of 2017
- Awarded for two successive years by Office of Scientific Creativity of Students of IUST for activities in Scientific Association of Mechanical Engineering of IUST (2011-2012).
- Awarded for contributions to scientific-industrial journal of IUST Mechanical Engineering Department by the dean of IUST Mechanical Engineering Department (2012).

Experience

- Teaching Assistant for "Fluid Mechanics" course (held tutorial classes as well) (Jan 2017 - Present), Concordia University, School of Mechanical, Industrial and Aerospace Engineering (MIAE)
- Teaching Assistant for "Convective Heat Transfer" graduate course (held tutorial classes as well) (2016), IUST, Mechanical Engineering Department
- Teaching Assistant for "Thermodynamics I" course (held tutorial classes as well) (2016-2017), IUST, Mechanical Engineering Department