



عباس نظری مراشی

مربی

محل خدمت: سازمان جهاددانشگاهی خواجه نصیرالدین

طوسی



سوابق تحصیلی			
مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۸۹	برق - قدرت	زنجان
کارشناسی ارشد	۱۳۹۱	برق - قدرت	خواجه نصیرالدین طوسی

اطلاعات استخدامی				
محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
سازمان جهاددانشگاهی خواجه نصیرالدین طوسی	مدیر گروه پژوهشی ماشین‌های الکتریکی	پیمانی	تمام وقت	

سوابق اجرایی

مدیر گروه پژوهشی ماشین‌های الکتریکی سازمان جهاد دانشگاهی خواجه نصیرالدین طوسی

عضو هیات علمی سازمان جهاد دانشگاهی خواجه نصیرالدین طوسی

موضوعات تدریس تخصصی

طراحی و ساخت ماشین‌های الکتریکی

روش‌های اجزای محدود

زمینه‌های تدریس

ماشین‌های الکتریکی 1 و 2

آزمایشگاه ماشین‌های الکتریکی 1 و 2

- 1) **Design Optimization of Permanent magnet motors using Ansys Maxwell** *Workshop at ICEE2017* K. N. Toosi University of Technology
- 2) **Thermal and Mechanical Analysis and Prototyping of Electrical Machines** *Workshop at ICEE2023* Amir Kabir University of Technology
- 3) **Thermal and Mechanical Analysis and Prototyping of Electrical Machines** *Workshop at ICEMD 2023* K. N. Toosi University of Technology
- 4) **Design Optimization of Permanent magnet motors using Ansys Maxwell** *Workshop at ICEMD 2023* K. N. Toosi University of Technology

طرح های پژوهشی

- Design, analysis and construct **13.5 KW Synchronous Reluctance** Electrical motor for roller table application.
- Design, analysis and construct an **Induction Motor for Oil Wells Electrical Submersible Pump (ESP)** application, 130Hp, 2450V, 540 Series.
- Design and Construct a **Test Setup for ESP Induction Motor** with Considering IEEE112 Standards.
- Design and Construct a **four bag (BPBSBPB) Protector for ESP Motor**.
- Design, analysis, construct and site Acceptance test Two **Direct-Drive PMSMs for Gearless Elevator Application**, 5.8 & 6.7KW, 168 rpm.
- Design, Analysis and Construct a **7.5 Kw,1500rpm, PMSM motor with Considering mechanical and thermal issues**.
- Thermal Analysis of 30KW BLDC Motor with Lumped-Parameters.
- design and analysis of Magneto-hydro- dynamics (MHD) Thruster.
- design and analysis of radial and axial Magnetic Gears.
- Design, analysis and **construct a high speed BLDC motor with internal V-shape magnets**, 1.1KW, 12000rpm.
- Calculation of parasitic capacitance of 5KW synchronous Generator with Finite Element Method (FEM).
- Design and optimization of Linear induction motor with GA in Ansys Maxwell software.
- Faults modelling of synchronous machines with winding function method.

مقالات در همایش ها

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1. [Arvin Hojati, Abbas Nazari Marashi, Kh Kanzi ,Analysis of Magneto-hydro-dynamics thruster with linear and helical channel ,2017 Iranian Conference on Electrical Engineering \(ICEE\) ,2017/5/2](#)
 2. [Abbas Nazari Marashi, Kh Kanzi ,Thermal analysis of BLDC motor with propose new arrangement for permanent magnets to magnet eddy current loss reduction ,2016 24th Iranian Conference on Electrical Engineering \(ICEE\) ,2016/5/10](#)
 3. [Seyyedmahdi Jafarishiadeh, Mohammad Ardebili, Abbas Nazari Marashi ,Investigation of pole and slot numbers in axial-flux pm bldc motors with single-layer windings for electric vehicles ,2016 24th Iranian Conference on Electrical Engineering \(ICEE\) ,2016/5/10](#)
 4. [Abbas Nazari Marashi, K Abbaszadeh, Farhad Rezaee Alam ,Analysis and reduction of magnet eddy current losses in surface mounted permanent magnet machines ,2014 22nd Iranian Conference on Electrical Engineering \(ICEE\) ,2014/5/20](#)

1. Mojtaba Babaei, Mojtaba Feyzi, Abbas Nazari Marashi. Extended Poincaré model and non-linear analysis of permanent-magnet synchronous motor scalar drive system. IET Power Electronics. ۲۰۲۲/۷.
۲. Farhad Rezaee-Alam, Abbas Nazari Marashi, Abolfazl Dehafarin, Khalil Kanzi, Sam Roozbehani. Analytical modelling of one cage rotor induction motor for electric submersible pumps. IET Electric Power Applications. ۲۰۲۲/۱۱.
3. Mojtaba Babaei, Abbas Nazari Marashi, Sahand Ghaseminejad Liasi, Optimizing DFIG-DC system performance via model predictive control: Torque ripple, DC voltage drop, and THD reduction, Energy Science & Engineering, 2024/8.
4. Mojtaba Babaei, Mojtaba Feyzi, Abbas Nazari Marashi, Incorporating the coupled effects of slot opening, armature reaction and saturation in the model of the airgap flux density distribution of permanent magnet synchronous machines, IET Electric Power Applications, 2024/2.
5. Farhad Rezaee-Alam, Abbas Nazari Marashi, Sam Roozbehani, Modified magnetic equivalent circuit model for magnetic field analysis of one cage-rotor induction motor used in electric submersible pumps, IET Electric Power Applications, 2023/6.
6. Mojtaba Babaei, Mojtaba Feyzi, Abbas Nazari Marashi, Study of bifurcation and chaos in scalar drive systems of permanent magnet synchronous machines, International Transactions on Electrical Energy Systems, 2021/9.