



محمد عارفی

متولد ۱۳۶۳

محل تولد: کاشان وضعیت تاهل: متاهل

آدرس: کاشان - دانشگاه کاشان - دانشکده مهندسی مکانیک

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سوابق تحصیلی

دیپلم ریاضی فیزیک - سال ۸۱ دبیرستان امام خمینی کاشان، معدل دیپلم: 18/40

کارشناسی:

مهندسی مکانیک گرایش طراحی کاربردی دانشگاه کاشان، مهر ۸۱ تا تیر ۸۵، معدل: ۱۷/۲۱
عنوان پایان نامه: تحلیل تنش در مخازن مکعبی تحت بارهای مماسی و پیچشی و خمشی با راهنمایی جناب آقای دکتر سعید گلابی، دانشیار گروه مهندسی مکانیک دانشگاه کاشان.

کارشناسی ارشد:

طراحی کاربردی از مهر ۸۵ تا شهریور ۸۷، معدل کل: ۱۷/۴۶
عنوان پایان نامه: آنالیز الاستیک پلاستیک پنل با گشودگی با راهنمایی دکتر غلامحسین رحیمی استاد تمام گروه مهندسی مکانیک دانشگاه تربیت مدرس

دکتری تخصصی:

طراحی کاربردی از مهر ۸۷ تا شهریور ۹۱، معدل: ۱۸/۷۳
عنوان رساله: تحلیل استاتیکی سیلندر جدار ضخیم متقارن محوری ساخته شده از مواد پیزوالکتریک تابعی تحت فشار داخلی با راهنمایی دکتر غلامحسین رحیمی استاد تمام گروه مهندسی مکانیک دانشگاه تربیت مدرس

سوابق پژوهشی

الف-مقالات چاپ شده در مجلات معتبر داخلی شامل ۴ مقاله

قبل از دکتری

۱. عارفی، رحیمی و اکبری آلاشتی، آنالیز بار حد پنل با گشودگی دایروی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره ۱۸ پاییز ۱۳۸۸.
۲. عارفی و رحیمی، آنالیز ترموالاستیک سیلندر جدار ضخیم FG تحت فشار با استفاده از تئوری برشی مرتبه اول، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره ۲۰ پاییز ۱۳۸۹.
۳. عارفی، رحیمی و خوشگفتار، فرمولبندی عمومی برای آنالیز ترموپیزوالکتریک یک سازه ساخته شده از مواد مدرج الکتریکی با استفاده از روش انرژی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره ۲۱ بهار ۱۳۹۰.

پس از دکتری

۴. عارفی، تاثیر بستر ویسکو-پاسترناک بر ارتعاش ورق سه لایه با یک هسته مدرج و لایه های مدرج، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، پذیرفته شده برای چاپ.

ب- ISI Published Papers

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3. **M. Arefi** and G.H. Rahimi, 2012, Studying the nonlinear behavior of the functionally graded annular plates with piezoelectric layers as a sensor and actuator under normal pressure, **Smart Structures and Systems(IF=1.3)**, Vol. 9, No. 2, 127-143.

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پ- مقالات چاپ شده در مجلات علمی پژوهشی داخلی شامل ۴ مقاله

۴۵. عارفی، رحیمی و اکبری آلاشتی، آنالیز بار حد پنل با گشودگی دایروی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره ۱۸ پاییز ۱۳۸۸.
۴۶. عارفی و رحیمی، آنالیز ترموالاستیک سیلندر جدار ضخیم FG تحت فشار با استفاده از تئوری برشی مرتبه اول، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره ۲۰ پاییز ۱۳۸۹.
۴۷. عارفی، رحیمی و خوشگفتار، فرمولبندی عمومی برای آنالیز ترموپیزوالکتریک یک سازه ساخته شده از مواد مدرج الکتریک با استفاده از روش انرژی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره ۲۱ بهار ۱۳۹۰.
۴۸. عارفی، تاثیر بستر ویسکو-پاسترناک بر ارتعاش ورق سه لایه با یک هسته مدرج و لایه های مدرج، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، پذیرفته شده برای چاپ.

ت- مقالات چاپ شده در کنفرانس های معتبر خارجی شامل ۳ مقاله

49. M. J. Khoshgoftar, G. H. Rahimi, and M. Arefi, EXACT SOLUTION FOR A ROTATING CYLINDER MADE OF FUNCTIONALLY GRADED PIEZOELECTRIC MATERIALS, 16th International Conference on Composite Structures (ICCS 16), Porto, 2011.
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ث- مقالات چاپ شده در کنفرانس های معتبر داخلی شامل ۶ مقاله

۵۲. آنالیز بار حد پنل با گشودگی با استفاده از روش جبران الاستیک- شانزدهمین کنفرانس بین المللی مهندسی مکانیک-دانشگاه باهنر کرمان- ۱۳۸۷
۵۳. آنالیز بار حد پنل با گشودگی با استفاده از روش تحلیلی- هفدهمین کنفرانس مهندسی مکانیک- دانشگاه تهران- ۱۳۸۸
۵۴. آنالیز بار حد پنل های با گشودگی بیضوی و مستطیلی با استفاده از روش جبران الاستیک- هفدهمین کنفرانس بین المللی مهندسی مکانیک- دانشگاه تهران- ۱۳۸۸
۵۵. آنالیز ترمو پیزو الکتریک سیلندر جدار ضخیم - هفدهمین کنفرانس بین المللی مهندسی مکانیک- دانشگاه تهران- ۱۳۸۸
۵۶. آنالیز تحلیلی سیلندر جدار ضخیم ناهمگن پیزوالکتریک تحت بار مکانیکی، الکتریک و حرارتی در میدان مغناطیسی- ۱۸ امین کنفرانس بین المللی مهندسی مکانیک- دانشگاه صنعتی شریف - ۱۳۸۹

۵۷. حل دقیق استوانه جدار ضخیم ناهمگن پیزومغناطیس تحت بار مکانیکی و حرارتی-۱۸
امین کنفرانس بین المللی مهندسی مکانیک- دانشگاه صنعتی شریف- ۱۳۸۹

عناوین علمی و پژوهشی

۱. پژوهشگر نمونه دانشگاه کاشان در سال ۱۳۹۳
۲. پژوهشگر برگزیده دانشگاه کاشان در سال ۱۳۹۶
۳. داور ژورنال **Journal of Mechanical Science and Technology (Springer)**
۴. داور ژورنال **Ain Shams Engineering Journal (Elsevier)**
۵. داور ژورنال **International Journal of Pressure Vessel and Pippings (Elsevier)**
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۷. داور ژورنال **Latin American Journal of Solids and Structures**
۸. داور مجله مکانیک سازه ها و شاره ها
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۱۰. نفر اول کنکور کارشناسی ارشد در دانشگاه کاشان
۱۱. نفر ۳ المپیاد دانشجویی سال ۱۳۸۵

زمینه های علاقمندی

مواد پیزوالکتریک
نانو و میکرو سازه ها
سازه های ساندویچی
تحلیل مخازن تحت فشار
تحلیل پوسته ها و ورقها
تحلیل سازه های ساندویچی
تحلیل سه بعدی در دستگاه مختصات منحنی الخط
تحلیل های غیر خطی
کاربرد روش انرژی جهت تحلیل مسایل
تحلیل مواد مدرج

توانایی تدریس دروس

استاتیک
دینامیک
مقاومت مصالح ۱ و ۲

طراحی اجزا ۱
مکانیک محیط های پیوسته
مقاومت مصالح پیشرفته
تئوری پوسته ها و ورقها

دروس تدریس شده

مقاومت مصالح ۱
مقاومت مصالح ۲
کارگاه عمومی
دینامیک
یاتاقان و روغنکاری
طراحی اجزا ۱
مقاومت مصالح
مکانیک محیط های پیوسته

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Research gate: RG Score: 34.31

مراجع و مستندات

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