



Name:	Abd El-Fattah Anwer Rizk
Title:	Professor
Specialization:	Fracture Mechanics
E-mail:	rizkabd@ alexu.edu.eg ; rizkabd@yahoo.com
Education:	<ul style="list-style-type: none"> • Ph. D. Mechanical Engineering, Lehigh University, Bethlehem, Pennsylvania, USA, 1988. "Cracking of a Layered Medium on an Elastic Foundation under Thermal Shock" • M.S. Mechanical Engineering, Lehigh University, Bethlehem, Pennsylvania, USA, 1984. "A Numerical Study of Turbulent Heat Transfer in Rotating Rectangular Ducts". • B.S. Mathematics, Faculty of Science, Alexandria University Alexandria, Egypt, 1979, Highest Honor. • B.S. Mechanical Engineering, Faculty of Engineering, Alexandria University, Alexandria, Egypt, 1975, Highest Honor.
Teaching Experience:	<ul style="list-style-type: none"> • Teaching Course in Engineering Mechanics (I, II, III) from January 2009 till now as a Professor in the Department of Engineering Mathematics and Physics, Faculty of Engineering and in Alexandria Higher Institute of Engineering & Technology, Alexandria, Egypt. • Teaching courses in Mathematics (Calculus of single variables, Calculus of multivariable, vector calculus, Ordinary differential equations, Partial differential equations, Numerical methods, Complex variable, and Linear algebra) from February 2000- 2008 as an Associate Professor in the Department of Science in Engineering, International Islamic University Malaysia. • Teaching courses in Mechanics, Mathematics from Nov. 1988- February 2000 as an Assistant and Associate Professor in the Department of Engineering Mathematics and Physics, Faculty of Engineering, Military Air Defense College, and College of Specific Education, Alexandria, Egypt. • Assisted in teaching courses in Thermodynamics (I, II), Mechanics (I, II), Fluid Mechanics, Mechanical Elements, and Solid Mechanics as a teaching assistant in the Mechanical Engineering and Mechanics Department from Sept. 1983 – 1988, Lehigh University, USA. • Assisted in teaching courses in Mechanics, Mathematics Engineering

	Drawing, and Descriptive Geometry as an Instructor in the Department of Engineering Mathematics and Physics, January 1977 –June 1981, Alexandria University, Egypt.
Research Interests:	Research in the areas of Solid Mechanics (Fracture Mechanics), Fluid Mechanics and Heat Transfer. Analytical and Computational methods for solving related problems in the same Areas.
Honors and Awards:	<ul style="list-style-type: none"> • Ministry of high Education’s award for outstanding students, 1971 - 1975 (faculty of Engineering), 1977 – 1979 (faculty of Science), Alexandria University, Egypt. • B.S. Mechanical Engineering, Alexandria University with honor’s degree, 1975. • B.S. Mathematics, Alexandria University with honor’s degree, 1979. • Scholarship from Lehigh University during the study for M.S. degree 1981 – 1988. • Scholarship from Lehigh University during the study for Ph.D. degree 1984 – 1988. • Obtained a silver medal and bronze medal in the second Kulliyah of Engineering Research and Innovation Exhibition (KERIE 06) at IIUM Malaysia, 5-6 December 2006. • Obtained a silver medal in the third Kulliyah of Engineering Research and Innovation Exhibition (KERIE 07) at IIUM Malaysia , 12-13 December 2007.
Grants:	<ol style="list-style-type: none"> 1- “Periodic Crack of Elastic Semi-Infinite Plate under Thermal Shock”, IIUM, RM6500. Completed. 2- “Stress Intensity Factors for Periodic Array of Cracks in Strip Subjected to Transient Thermal Stresses”, IIUM, RM8000. Completed. 3- “Thermal shock of periodic array of cracks in shells and plates on an elastic foundation”, IIUM, RM8100. Completed. 4- “Investigation of Crack Behavior in Bonded Dissimilar Materials under Thermal Loading”, (FRGS), IIUM, RM57000. Completed.
Google Scholar:	https://scholar.google.com.eg/citations?user=79MJ5Z8AAAAJ&hl=en
Academic Activities & Committees:	<ul style="list-style-type: none"> • Member in Faculty of Engineers board , 2018. • Head of Engineering Mathematics and Physics Department, Faculty of Engineering, Alexandria University, Alexandria, Egypt, since May 2011 to February 2012. • Acting head of Head of Engineering Mathematics and Physics Department, Faculty of Engineering, Alexandria University, Alexandria, Egypt, for one month June 2010. • Member of supervising committee for M.S. student in Engineering Mathematics in the Engineering Mathematics and Physics Department 2013. • Member of supervising committee for MS.D student in Engineering Mathematics in the Engineering Mathematics and Physics Department finished in 2011. • Member of supervising committee for PhD. student in Engineering Mathematics in the Engineering Mathematics and Physics Department finished in 2013. • Member of exam committee for MS.D student in Engineering Mathematics in the Engineering Mathematics and Physics Department 2012.

	<ul style="list-style-type: none"> • Head of the department of Science in Engineering, Faculty of Engineering, International Islamic University Malaysia, Malaysia, since July 2003 to June 2006. • A member of the Supervisory Committee for a PhD student in the Mechanical Engineering Department (IIUM). • A Member of Editorial Board of IIUM Engineering Journal, International Islamic University Malaysia. • A Member of the Reviewers of “International Journal of Solids and Structures”. • A Member of the Reviewers of “Journal of Engineering Fracture Mechanics”. • A Member of the Reviewers of “Theoretical and Applied Fracture Mechanics”. • A Member of the Reviewers of “IIUM Engineering Journal” International Islamic University Malaysia. • A Member of Curriculum Committee for review and improvement of academic programs (Mathematics Courses) in the Faculty of Engineering, International Islamic university Malaysia. • A Member of research group “Mathematical Modeling and Simulation in Engineering”, Faculty of Engineering, International Islamic University Malaysia, Malaysia. • A Member of research group” Experimental and Computational Thermo-fluid Mechanics”, Faculty of Engineering, International Islamic University Malaysia, Malaysia. • Member of Professional Society of Engineers, Egypt.
<p>Personal Website:</p>	

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الوظيفة الحالية:	أستاذ الميكانيكا الهندسية
التخصص:	ميكانيكا الشروخ
الايمل:	rizkabd@ alexu.edu.eg ; rizkabd@yahoo.com
المؤهلات الدراسية:	<p>1. دكتوراة الفلسفة في الهندسة الميكانيكية (الشروخ في الأوساط المركبة على قاعدة مرنة تحت تأثير حرارى) جامعة ليهاى – بنسلفانيا – الولايات المتحدة الأمريكية – 1988.</p> <p>2. ماجستير الهندسة الميكانيكية (دراسة عددية لسريان الموائع وانتقال الحرارة فى لأنابيب المستطيلة الدوارة) جامعة ليهاى – بنسلفانيا – الولايات المتحدة الأمريكية – 1984.</p> <p>3. بكالوريوس الرياضيات – كلية العلوم – جامعة الإسكندرية – مع مرتبة الشرف – 1979.</p> <p>4. بكالوريوس الهندسة الميكانيكية – كلية الهندسة – جامعة الإسكندرية – مع مرتبة الشرف – 1975.</p>
الخبرات التدريسية:	الميكانيكا الهندسية - الرياضيات الهندسية – الرسم الهندسى.
الأبحاث:	ميكانيكا الصلبة-ميكانيكا الموائع-الانتقال الحرارى
الجوائز:	<p>1. عدد 1 ميدالية فضية فى المسابقة البحثية للجامعة الاسلامية العالمية ماليزيا 2007.</p> <p>2. عدد 2 ميدالية (واحدة فضية - واحدة برونزية) فى المسابقة البحثية للجامعة الاسلامية العالمية ماليزيا 2005.</p>
المنح:	<p>1- مشروع بحثى فى “Periodic Crack of Elastic Semi-Infinite Plate under Thermal Shock”, IIUM, قيمة المنحة 6500 رنجت</p> <p>2- مشروع بحثى فى “Stress Intensity Factors for Periodic Array of Cracks in Strip Subjected to Transient Thermal Stresses”, IIUM قيمة المنحة 8100 رنجت</p> <p>3- مشروع بحثى فى “Thermal shock of periodic array of cracks in shells and plates on an elastic foundation”, IIUM قيمة المنحة 57000 رنجت</p>
المهام الأكاديمية:	<p>1- رئيس قسم الرياضيات والفيزياء الهندسية – كلية الهندسة- جامعة الإسكندرية فى الفترة من مايو 2011 إلى فبراير 2012.</p> <p>2- رئيس قسم العلوم الهندسية – كلية الهندسة- الجامعة الإسلامية العالمية ماليزيا فى الفترة من مايو 2003 إلى فبراير 2006.</p> <p>3- عضو بمجلس كلية الهندسة 2018.</p> <p>4- عضو فى هيئة التحرير فى “IIUM Engineering Journal”</p> <p>5- عضو فى " Professional Society of Engineers, Egypt. "</p> <p>6- محكم لمجلات علمية</p> <ul style="list-style-type: none"> • “International Journal of Solids and Structures”. • “Journal of Engineering Fracture Mechanics”. • “Theoretical and Applied Fracture Mechanics”. • “IIUM Engineering Journal”
الموقع الشخصى:	