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Education:	Ph.D., Mechanical Engineering, Alexandria University, 2011 M.S., Mechanical Engineering, Alexandria University, 2006 B.S., Mechanical Engineering, Alexandria University, 2000
Teaching Experience:	<p>Undergraduate</p> <ul style="list-style-type: none"> <li>▪ Mechatronics.</li> <li>▪ AutoCAD .( 2D ,3D and solid modeling)</li> <li>▪ Machine Drawing.</li> <li>▪ Mechanics of Machinery.</li> <li>▪ Mechanical Design.</li> <li>▪ Mechanical Vibration.</li> <li>▪ Automatic Control.</li> <li>▪ Optimum Design.</li> <li>▪ Matlab, Simulink and Artificial Neural Network.</li> <li>▪ Robotics.</li> <li>▪ Journal Bearing.</li> <li>▪ Lubrication</li> <li>▪ Mechanics of Materials.</li> <li>▪ Computer Aided Design.</li> </ul> <p>Post Graduate</p> <ul style="list-style-type: none"> <li>▪ Composite Materials.</li> <li>▪ Theory of Elasticity.</li> <li>▪ Theory of Plasticity.</li> <li>▪ Stress measurement and analysis.</li> <li>▪ Advanced design.</li> <li>▪ Error analysis.</li> <li>▪ Sensors.</li> <li>▪ Linear and Non-linear control</li> </ul>

<p>Research Interests:</p>	<ol style="list-style-type: none"> <li>1. M.Elshamy, W.A.Crosby, <b>M.Elhadary</b> “Crack detection of cantilever beam by natural frequency tracking using experimental and finite element analysis” Alexandria Engineering Journal, Volume 57, Issue 4, December 2018, Pages 3755-3766.</li> <li>2. <b>M.Elhadary</b> “A new failure criterion for GFRP composite materials subjected to in-phase and out-of-phase biaxial fatigue loading under different stress ratios “International Journal of Scientific &amp; Engineering Research, Vol. 4, Issue 9, pp. 1591-1597, September 2013.</li> <li>3. <b>M.Elhadary</b> “Validity of the modified fatigue strength ratio and SWT Parameter for Woven - Roving GFRP under in-phase and out-of-phase combined loading “International Journal of Scientific &amp; Engineering Research, Vol. 4, Issue 9, pp. 1584-1590, September 2013.</li> <li>4. <b>M.Elhadary</b>, M.N. Abouelwafa, A. Hamdy, T. Awad, "Fatigue life prediction for Woven-Roving glass fiber reinforced-polyester composite using neural networks", 6<sup>th</sup> International Engineering Conference, Faculty of Engineering-Mansoura University, Mansoura/Sharm El-Sheikh. March 2008.</li> <li>5. <b>M.Elhadary</b>, M.N. Abouelwafa, A. Hamdy, T. Awad, KH. Tawfik, "Artificial neural networks applied to Woven-Roving glass fiber reinforced-polyester composite under in &amp; out-of phase loading conditions" 7<sup>th</sup> International Engineering Conference, Faculty of Engineering-Mansoura University, Mansoura/Sharm El-Sheikh. March 2010.</li> <li>6. <b>M.Elhadary</b>, M.N. Abouelwafa, A. Hamdy, T. Awad." Fatigue behavior of Woven-Roving glass fiber reinforced-polyester under combined bending and torsional moments with different fluctuating stresses", Alexandria Engineering Journal, 2007, vol.46(4), 381-392.</li> <li>7. <b>M.Elhadary</b>, M.N. Abouelwafa, A. Hamdy, T. Awad." Fatigue life prediction for Woven-Roving glass fiber reinforced-polyester composite using SWT Parameter or the modified fatigue strength ratio", Alexandria Engineering Journal, 2007, vol.46(5), 611-619.</li> </ol>
<p>Honors and Awards:</p>	<ul style="list-style-type: none"> <li>▪ Faculty Award for high ranking over the Mechanical Power Engineering Department, Alexandria University, 1997, 1998, 1999, 2000.</li> </ul>
<p>Google Scholar:</p>	<p><a href="https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=b_7vmQoAAAAJ">https://scholar.google.com/citations?view_op=list_works&amp;hl=en&amp;user=b_7vmQoAAAAJ</a></p>

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<ul style="list-style-type: none"> <li>▪ Ph.D., Mechanical Engineering, Alexandria University, 2011</li> <li>▪ M.S., Mechanical Engineering, Alexandria University, 2006</li> <li>▪ B.S., Mechanical Engineering, Alexandria University, 2000</li> </ul>	المؤهلات الدراسية:
<p>البكالوريوس</p> <ul style="list-style-type: none"> <li>▪ Mechatronics.</li> <li>▪ AutoCAD .( 2D ,3D and solid modeling)</li> <li>▪ Machine Drawing.</li> <li>▪ Mechanics of Machinery.</li> <li>▪ Mechanical Design.</li> <li>▪ Mechanical Vibration.</li> <li>▪ Automatic Control.</li> <li>▪ Optimum Design.</li> <li>▪ Matlab, Simulink and Artificial Neural Network.</li> <li>▪ Robotics.</li> <li>▪ Journal Bearing.</li> <li>▪ Lubrication</li> <li>▪ Mechanics of Materials.</li> <li>▪ Computer Aided Design.</li> </ul> <p>الدراسات العليا</p> <ul style="list-style-type: none"> <li>▪ Composite Materials.</li> <li>▪ Theory of Elasticity.</li> <li>▪ Theory of Plasticity.</li> <li>▪ Stress measurement and analysis.</li> <li>▪ Advanced design.</li> <li>▪ Error analysis.</li> <li>▪ Sensors.</li> <li>▪ Linear and Non-linear control</li> </ul>	الخبرات التدريسية:
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