

## Dr. Mohammed Saber

Assistant Professor

### Personal Data:

Nationality | Egyptian  
Date of Hire | 21/09/2014  
Date Rank Obtained | 27/00/2011  
Department | Mechanical Engineering  
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### Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Mechanical Engineering	Mechanical Design	Nottingham University	Nottingham, UK	2011
Masters (M.Sc.)	-	-	-	-	-
Bachelor (B.Sc.)	Production Engineering and Mechanical Design	Production Engineering and Mechanical Design	Mansoura University	Mansoura, Egypt	2000

### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Experimental and Finite Element Studies of Creep and Creep Crack Growth in P91 and P92 weldments
Master	-

### Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	King Faisal University	Saudi Arabia	From	Sep. 2014
			To	Current
Associate Professor (on leave)	Port Said University	Egypt	From	April 2020
			To	Current
Assistant Professor (on leave)	Port Said University	Egypt	From	Dec. 2011
			To	April 2020

### Research Interests:

1. Mechanics of Solids
2. Manufacturing processes

3. Material testing
4. Mechanical Design
5. Fracture mechanics

#### Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	<b>Mohammed Saber</b> and Balhassn Ali	On the Determination of Material Mechanical Properties of ST 37 Pipes using O-ring Specimens	Experimental Techniques, 2021	<a href="#">Click Here</a>
2	<b>M. Saber</b> and H. Chouikhi	Development of the Bi-cone Mandrel Ring Expansion Test to Evaluate the Hoop Stress in Extruded Aluminum Tubes	Experimental Mechanics, 2021	<a href="#">Click Here</a>
3	<b>Mohammed Saber</b>	Bending Test and Simulation of Welded Galvanized Steel Pipes	Technical Gazette (TV-TG),2021	<a href="#">Click Here</a>
4	Ahmed Elkaseer, Ali Abdelaziz, <b>Mohammed Saber</b> and Ahmed Nassef	FEM-Based Study of Precision Hard Turning of Stainless Steel 316L	Materials, 2019	<a href="#">Click Here</a>
5	<b>Mohammed Saber</b>	Analysis of Integrated Cylinder-Shaped Steel Flywheels in Flywheel Energy Storing Systems	Port Said Engineering Research Journal, Egypt,2019	<a href="#">Click Here</a>
6	<b>M Saber</b>	Finite Element Simulation of Metal Cutting of Aluminum Using Johnson-Cook Damage Model and Shear Failure Model	Mansoura Engineering Journal (MEJ),2017	<a href="#">Click Here</a>
7	El-shrief E. , <b>Saber M.</b> , Nassef A. and Shaker M	Numerical Simulation to Study the Influence of Welding Sequence on Distortion and Residual Stresses of Butt-Welded Plates	Port Said Engineering Research Journal, 2016	<a href="#">Click Here</a>
8	Prof. Dr. Ebtisam F. Abdel-Gwad, Dr. Ahmed Abdel Rahman Elkaseer, Dr. <b>Mohamed Saber</b> and Eng. Mahmoud Samy Elqazzaz	Evaluation of Mixed Structural Steel lap Joints Using Experimental and Finite Element Methods	Port Said Engineering Research Journal, 2016	<a href="#">Click Here</a>
9	Balhassn S. M. Ali, Terry Y. P. Yuen and <b>Mohammed Saber</b>	Creep Evaluation of Traditional and Nuclear Power Plants High Temperature Components Using Small Pin Loaded One-Bar and Two-Bar Specimens	Nuclear Technology, 2016	<a href="#">Click Here</a>
10	<b>M. Saber</b> , T. H. Hyde and W. Sun	Numerical study of the effects of crack location on creep crack growth in weldment	Engineering Fracture Mechanics, 2016	<a href="#">Click Here</a>

11	A. Abdelaziz , A. Elkaseer , <b>M. Saber</b> , A. Nassef	FE Simulation Study of Ultra-Precision Turning of Stainless Steel 316L	Conference on Applied Mechanics and Mechanical Engineering, Military Technical College, Kobry El-Kobbah, Cairo, Egypt, April 19-21, 2016	<a href="#">Click Here</a>
12	Balhassn S. M. Ali and <b>Mohammed Saber</b>	Numerical Investigation of the Effects of Misalignment on the Pre-mature Failure of the Standard and Sub-size Uniaxial Creep Test Specimens	Proceedings of MECHATECH '16 conference, MAY 17-18, 2016, Istanbul, Turkey	<a href="#">Click Here</a>
13	D. W. J. Tanner, <b>M. Saber</b> , W. Sun and T. H. Hyde	Creep Behavior of P92 and P92 Welds at 675°C	Journal of Pressure Vessel Technology, 2013	<a href="#">Click Here</a>
14	D. W. J. Tanner, <b>M. Saber</b> , W. Sun and T. H. Hyde	Creep Behavior Of P92 and P92 Welds at 675°C	Proceedings of the ASME 2012 Pressure Vessels & Piping Division Conference, PVP2012, July 15-19, 2012, Toronto, Ontario, CANADA	<a href="#">Click Here</a>
15	<b>M. Saber</b> , D. W. J. Tanner, T. H. Hyde and W. Sun	Determination of Creep and Damage properties for P92 at 675°C	The Journal of Strain Analysis for Engineering, 2011	<a href="#">Click Here</a>
16	Sun, W., Hyde, C. J., Hyde, T. H., Becker, A. A., Li, R. and <b>Saber, M.</b>	Finite Element Analysis of Creep Crack Growth for Compact Tension and Thumbnail Crack Specimens	Proceedings of ICAPP 2011, Nice, France, May 2-5, 2011, Paper 11262.	<a href="#">Click Here</a>
17	Hyde, T. H., <b>Saber, M.</b> and Sun, W.	Creep crack growth data and prediction for a P91 weld at 650 °C	International Journal of Pressure Vessels and Piping, 2010	<a href="#">Click Here</a>
18	Hyde, T. H., Li, R., Sun, W. and <b>Saber, M.</b>	A simplified method for predicting the creep crack growth in P91 welds at 650°C	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2010	<a href="#">Click Here</a>
19	Hyde, T. H., <b>Saber, M.</b> and Sun, W.	Testing and modelling of creep crack growth in compact tension specimens from a P91 weld at 650°C	Engineering Fracture Mechanics, 210	<a href="#">Click Here</a>
20	Hyde, T. H., <b>Saber, M.</b> & Sun, W.	Creep Crack Growth in a P91 Weld at 650°C	WELDS. Sanibel Harbour Resort & Spa, Fort Myers, Florida, USA.	<a href="#">Click Here</a>



### Language Proficiency:

1. Arabic (mother tongue)
2. English (very good)
3. French (a little)