



# الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

## Arab Academy for Science, Technology & Maritime Transport

**Prof. : Sherif Farouk Mohamad Farid Badran**



### Personal Data

- **Address:** Alexandria – Main Campus - Egypt
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### Education

- 1-Ph.D. degree, Department of Mechanical Design and Production, Faculty of Engineering, Cairo University, October 2008 (Best Thesis Award, academic year 2008-2009)
- 2-M.Sc. degree in Marine Engineering, College of Engineering and Technology, AASTMT. March 2002.
- 3-B.Sc. degree in Mechanical and Marine Engineering. Department of Mechanical and Marine Engineering, College of Engineering and Technology, AASTMT. Feb. 1997, with honour's degree, the Second of the class.

### Experience

- 1-Professor of ship structural design at the Department of Marine Engineering Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt, from March 2018 until now.
- 2-Associate Professor (1<sup>st</sup> Lecture) at the Department of Marine Engineering Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt, from Jan. 2013 until Feb.2018.
- 3-Assistant Professor (2<sup>nd</sup> Lecture) at the Department of Marine Engineering Technology, College of Maritime and Transport Technology, Arab Academy for Science and Technology and Maritime Transport, from October 2008 until Dec.2012.
- 4- Lecturer at the Department of Marine Engineering Technology, College of Maritime and Transport Technology, Arab Academy for Science and Technology and Maritime Transport, from March 2002- until September 2008.
- 5-Instructor at the Department of Marine Engineering Technology, College of Maritime and Transport Technology, Arab Academy for Science and Technology and Maritime Transport, from Jan. 1998-until August 2001.
- 6-Date of joining the academy 1998/1/1
- 7-Twenty-six years of academic experience working as a lecturer.



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### Arab Academy for Science, Technology & Maritime Transport

#### **Responsibilities**

- 1- Vice Dean of Faculty Members affairs, AASTMT.
- 2- Chairman of a social services committee for two years at the Arab Academy for Science, Technology, and Maritime Transport, Alexandria, Egypt.
- 3- Head of books Committee.
- 4- Academic Advisor.

#### **Achievements**

##### **Researches and Scientific Studies**

- 1- A.S. Tohamy, Sherif Farouk Badran, Ahmed A. EL-Serwi, Rabiee Ali Sadeek, Amr B. Saddek "Efficiency of Web Cutouts for Steel Plate Girders with Corrugated Webs Versus Flat Webs Under Shear Loading" Arabian Journal for Science and Engineering, 48, (2023), 5215–5228.
2. Ahmed Sedky Tohamy, Rabiee Ali Sadeek, Amr B. Saddek, Sherif Farouk Badran, Ahmed A. EL-Serwi "Behavior of Trapezoidal Corrugated Webs Girders with Cutouts: Experimental and Analytical Solution". Journal of engineering sciences, 50, (2022), 146-159.
3. MS Elsaka, HW Leheta, AS Zayed, SF Badran "Strength and weight characteristics of a self-propelled barge based on sandwich panel system" Sustainable Development and Innovations in Marine Technologies: Proceedings of the 18<sup>th</sup> International Congress of the Maritime Association of the Mediterranean (IMAM 2019), 403-409, September 9-11, (2019), Varna, Bulgaria
4. AS Elhanafi, HW Leheta, SF Badran "Time-variant reliability analysis of novel deck and bottom panels" Ocean Engineering, 133, (2017) , 73-88
5. Heba Wael Leheta, Ahmed Shawki Elhanafi, Sherif Farouk Badran. "Reliability analysis of novel stiffened panels using monte Carlo simulation" Ships and offshore structures 13, (2017), 640–652.
6. Heba Wael Leheta, Ahmed Shawki Elhanafi, Sherif Farouk Badran. "A numerical study of the ultimate strength of Y-deck panels under longitudinal in-plane compression" Thin-Walled Structures, 100, (2016), 134–146.
7. Yahia A. Abd El-Nasser, Islam Adel Al-Mallah, Sherif F. Badran, Khaled Alawadhi. "Ship Collision analysis of tanker using finite element method at high and low impact velocities". International Journal of Structural Mechanics and Finite Elements, 2, (2016), 1-11.
8. Heba Wael Leheta, Sherif Farouk Badran, Ahmed Shawki Elhanafi. "Ship structural integrity using new stiffened plates". Thin-Walled Structures, 94, (2015), 545-561.
9. Ahmed Shawki El-Hanafi, Sherif Farouk Badran, Heba Wael Leheta. "Design of Y stiffened panels in double hull tanker under axial compressive loads". Analysis and Design of Marine Structures – Guedes Soares & Romanoff (eds) 2013 Taylor & Francis Group, London.
10. Sherif Farouk Badran, Amr Bakr Saddek, Heba Wael Leheta. "Ultimate strength of Y and T stiffeners subjected to lateral loads with three different levels of initial imperfection". Ocean Engineering. 61, (2013), 12–25.
11. Sherif Farouk Badran, Mohamed Ahmed Abd El-Kader. "A New Quantitative Fatigue Life Assessment using Alternative Stiffened Panels in Midship Section". European Journal of Scientific Research. 90, (2012), 473-492.



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### Arab Academy for Science, Technology & Maritime Transport

12. Sherif Farouk Badran, Mohamed Ahmed Abd El-Kader. "Increasing Fatigue Life in Ship Structures using Y-Stiffeners with Right Angle of Hat". European Journal of Scientific Research. 91, (2012), 364-380.
13. Amr Bakr Sadeek, Sherif Farouk Badran, Heba El-Sayed El-Kilani. "Effect of Web Dimensions on the Critical Buckling Stress of T Sections under Axial and Combined Loads". European Journal of Scientific Research. 86, (2012), 509-519
14. EL-Sayed Hussein Hegazy, Sherif Farouk Badran, samy Adly Youssef. "Safe Struck Ship"(3S):Software Package for Structural analysis of collision between ships". Port Said Engineering Research Journal Faculty of Engineering - Port Said University 16,(2012), 68-79.
15. EL-Sayed Hussein Hegazy, Sherif Farouk Badran, Samy Adly Youssef. "Structural design of double hull oil tankers for collision" Port Said Engineering Research Journal Faculty of Engineering - Port Said University. 16, (2012), 61-67.
16. EL-Sayed Hussein Hegazy, Sherif Farouk Badran, Samy Adly Youssef. "Structural Safety of Ships - New Concept". The International Maritime Transport and Logistics Conference Port & Logistics: "A Vision For Future Integration" 18 - 20 December 2011
17. Badran, Sherif Farouk, Nassef, O Ashraf, Metwalli, M Said. "Y Stiffened Panel Multi-objective Optimazation Using Genetic Algorithm". Thin Walled structures, 47,(2009), 1331-1342.
18. Badran, Sherif Farouk, Nassef, O Ashraf, Metwalli, M Said. "A Comparison of Buckling Strength of Y and T Stiffeners in Ship Plating". Marine Technology, 45, (2008), 125-131.
19. Badran, Sherif Farouk; A.O. Nassef; S. M. Metwalli. "Stability of Y stiffeners in ship plating under uniaxial compressive loads "Ships and Offshore Structures, 2, (2007),87 – 94.

#### **Relevant Courses**

1-Statics    2-Dynamics    3-Materials science    4-Strength of materials  
5-Mechanics of materials    6-Ship construction    7- Naval Architecture    8 Ship design