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Rba of pressure vessels safety with marine applications

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The paper (workshop) investigates how the Risk Based Analysis can suggest definite solution towards sorting out hazardous prevention problems in pressure vessels. The paper theme is to highlight and investigate actual cases of failures of pressure vessels. The discussion has been extended to suggest a risk based analysis scheme that can be applied towards safety operations and prompt handling of pressure vessels.

The main topics that will be covered are being summarized as follows:

- 1. Advanced Risk definition
- 2. Proposed Fitness for Performance Approach based on Risk Analysis as Applied to Pressure Vessels
- 3. Applications of the proposed safety hazards implications Applied to Pressure Vessels
 - Fatigue Life Estimation procedure
 - Corrosion Problems and Solutions
 - Inherited and hidden defects ILI Solutions, and catastrophic failures risk scheme reduction
- 4. Advanced RBA Maintenance Techniques and Procedures
- 5. Practical Derived Field Examples

Biography

M. M. El-Gammal has completed his Ph.D. from Newcastle upon Tyne University, UK, and has Sabbatical Leave at the B.S.R., A. Wallsend Research Station, UK, to contribute in developing Marine Design Manual, 1980 to 1982. He is the ex- Head of Marine Engineering Department, Faculty of Engineering, at Alexandria University Egypt. He has published more than 141 technical and scientific papers in reputed Journals and Conferences. Recently, he has been appointed Member of the Editorial Board in Engineering Journal, New Underground Publications in 2013.

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