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Submersible Vehicle Systems Design by E. Eugene Allmendinger, August 1990, Society of Naval Architects & edition, Hardcover

Submersible Vehicle Systems Design (August 1990 edition ...

The choice of structural design and material is essential in preventing the external walls of a vessel from buckling under pressure. In this revised second edition of Pressure vessels, Carl Ross reviews the problem and uses both theoretical and practical examples to show how it can be solved for different structures. The second edition opens with an overview of the types of vessels under external pressure and materials used for construction. Axisymmetric deformation and different types of instability are discussed in the following chapters, with chapters 5 and 6 covering vibration of pressure vessel shells, both in water and out. Chapters 7 and 8 focus on novel pressure hulls, covering design, vibration and collapse, while chapters 9 and 10 concentrate on the design and non-linear analysis of submarine pressure hulls under external hydrostatic pressure. In chapter 11, the design, structure and materials of deep-diving underwater pressure vessels are discussed, focusing on their application in missile defence systems. Finally, chapter 12 analyses the vibration of a thin-walled shell under external water pressure, using ANSYS technology. Drawing on the author□s extensive experience in engineering and design both in an industrial and academic capacity, the second edition of Pressure vessels is an essential reference for stress analysts, designers, consultants and manufacturers of pressure vessels, as well as all those with an academic research interest in the area. Presents an overview of the types of vessels under external pressure and materials used for

construction Assesses axisymmetric deformation and different types of instability covering vibration of pressure vessel shells Explores novel pressure hulls, covering design, vibration and collapse concentrating on the design and non-linear analysis of submarine pressure hulls

Introduction IX Community Energy Research and Development Strategy Programme Characteristics ImpLementation and Supervision Structure Status of Implementation Diffusion of Knowledge and Results Information for Future Proponents Breakdown of Support by Sector Breakdown of Projects by Sector Geophysics and Prospecting DrilLing 57 Production Systems 79 Secondary and Enhanced Recovery 183 Environmental Influence on Offshore 245 Auxiliary Ships and Submersibles 253 Pipelines 271 Transport 289 Natural Gas Technology 313 Energy Sources 323 Storage 333 MisceLlaneous 343 v PREFACE The 1973 oil crisis highLighted the dependency of the Community on imported hydrocarbons to satisfy its energy demand. Therefore, in order to improve security of suppLy the Community has deveLoped since 1973 a programme assisting the oiL industry to develop new technoLogies required for expLoiting oiL and gas resources outside and inside the Community territories. This programme (ReguLations 3056/73 and 3639/85) has aLLowed remarkabLe achievements in a sector where innovation is needed to take up the chaLLenge of producing oiL and gas in difficuLt environments. This report shows the achievements of the Community programme. It gives evidence of the high technicaL LeveL which has aLready been attained by the companies in the oiL and gas sector with the support of the Community.

The thesis compares the analytical solution, two marine classification society design rules, and two design guides against

experimental results for predicting the failure modes (general instability, axisymmetric buckling, and asymmetric collapse of the shell LOBAR BUCKLING) and failure pressures of ring-stiffened cylinders The analytical solution is first summarized based on several sources. The design rules for the classification societies and the design guidance from two sources are then presented with brief explanations for each one. The design rules used are: American Bureau of Shipping (Rules for Building and Classing Underwater Vehicles, Systems, and Hyperbaric Facilities, 1990) and Germanischer Lloyd (Rules for Underwater Technology, 1988). The design guides used were Society of Naval Architects and Marine Engineers (Submersible Vehicle Systems Design, 1990) and Massachusetts Institute of Technology Course 13A Professional Summer Notes (MIT 13A Submarine Design Trends, 2001). The United States Navy Naval Sea Systems Command, Submarine Structural Integrity Division supplied experimental data for four cylinders that covered the failure modes and allowed comparison between experiment and design rules/guidance. The comparison of experimental to predicted data found that the design codes and design guides performed adequately in predicting axisymmetric yield and asymmetric buckling. The performance of the design codes and guides in predicting failure by general instability was unsatisfactory. For the experimental failures by general instability, the design codes and guides predicted significantly higher failure pressures than those experimentally determined; resulting in the design codes and guides actually predicting failure by axisymmetric yield in stead of general instability. These inconsistencies in the predictions of failure mode and pressures for general instability should be further explored to determine causes and corrections.