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Concepts in Submarine Design - Roy Burcher, Louis J ...

Concepts in Submarine Design - January 1994. The two authors of this book have been involved in the design of submarines for the Royal Navy for upwards of thirty years, and have also been involved on and off in the teaching of submarine design for much of that time.

Introduction - Concepts in Submarine Design

This book shows how the engineering and architectural aspects of submarine design relate to each other, and describes the operational performance required of a vessel. The authors explain concepts of hydrodynamics, structure, powering and dynamics, in addition to architectural considerations that bear on the submarine design process.

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However, submarine design is just one of many engineering design activities and there are general features which are common to all. Before proceeding to the specific aspects of

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submarine design, we consider it worthwhile in this first chapter to address the more general aspects and show how they relate to the submarine design task.

Design in general (Chapter 1) - Concepts in Submarine Design

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INTRODUCTION. 9.1 Whilst all vehicles and ships have operating systems, the submarine requires special systems to enable it to operate in its environment between the surface and fully submerged below the sea. The systems are required both for operation in underwater space and for the crew to work efficiently totally divorced from the atmosphere. In concept formulation and initial sizing the systems do not present issues that need to be considered in detail, though they do require provision ...

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Dynamics and control (Chapter 8) - Concepts in Submarine ...

Yannick Smaldore 21 Oct 2020. Two years ago, for Euronaval 2018, Naval Group presented a new “concept ship” submarine, the SMX31. The design was then very radical, with the elimination of the sail and the aft propeller, and an overall biomimetic shape that reminds a humpback whale or a sperm whale. For Euronaval 2020, instead of a completely new concept submarine, Naval Group chose to unveils an upgraded version of the SMX31.

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This book shows how the engineering and architectural aspects of submarine design relate to each other, and describes the operational performance required of a vessel. The authors explain concepts of hydrodynamics, structure, powering and dynamics, in addition to architectural considerations that bear on the submarine design process. They pay particular attention to the interplay among these aspects of design, and devote a final chapter to the generation of the concept design for the submarine as a whole. Submarine design makes extensive use of computers, and the authors give examples of algorithms used in concept design. They provide engineering insight as well as an understanding of the intricacies of the submarine design process. The book will serve as a text for students and as a reference manual for practicing engineers and designers in marine and naval engineering.

Only the author of *The Hunt for Red October* could capture the reality of life aboard a nuclear

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submarine. Only a writer of Mr. Clancy's magnitude could obtain security clearance for information, diagrams, and photographs never before available to the public. Now, every civilian can enter this top secret world...the weapons, the procedures, the people themselves...the startling facts behind the fiction that made Tom Clancy a #1 bestselling author.

Nuclear submarine design resources at the shipyards, their suppliers, and the Navy may erode for lack of demand. Analysis of alternative workforce and workload management options suggests that the U.S. Navy should stretch out the design of the next submarine class and start it early or sustain design resources above the current demand, so that the next class may be designed on time, on budget, and with low risk.

The book is a survey of emerging technologies applicable to combat submarines, using worldwide sources.

This book covers specific aspects of submarine hydrodynamics in a very practical manner. The author reviews basic concepts of ship hydrodynamics and goes on to show how they are applied to submarines, including a look at the use of physical model experiments. The book is intended for professionals working in submarine hydrodynamics, as well as for advanced students in the field. This revised edition includes updated information on empirical methods for predicting the hydrodynamic manoeuvring coefficients, and for predicting the resistance of a submarine. It also includes new material on how to assess propulsors, and includes measures

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of wake distortion, which has a detrimental influence on propulsor performance. Additional information on safe manoeuvring envelopes is also provided. The wide range of references has been updated to include the latest material in the field.

After introducing the theory of the structural loading on ships and offshore structures based on the motions of wind, waves and currents, this text demonstrates its applications to conventional and non-conventional sea vessels, including extensive exercises and examples.

The divisive incident that anticipated the Kursk disaster in August 2000

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