



# Life Support Systems Design: Diving and Hyperbaric Applications

*Marshall L. Nuckols Ph.D., Ace J. Sarich P.E., William J. Marr Ph.D., David J. Robillard Ph.D.*

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An interdisciplinary field of study, underwater life support systems design requires the application of engineering principles with a knowledge of human physiology. Specifically, the study of life support systems design should have a strong background in the following areas: • human physiology related to respiration and the thermo-regulatory system • underwater physics including the interrelationship of pressure and temperature to gas volumes, their properties, and their solution in other materials • the chemistry involved in the absorption of gas constituents including carbon dioxide and other toxic contaminants • decompression theory required to predict the safe exposures to elevated pressure environments • pressure vessel design including design methods for exposures to both external and internal pressures • heat transfer including conduction, convection, and radiation modes • fluid dynamics involved in hydrostatic pressures and pipe flow • psychrometry at elevated pressures required to maintain adequate moisture levels in cabin environments

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