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BIOPHYSICS AND DIVING DECOMPRESSION PHENOMENOLOGY



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Biophysics and Diving Decompression Phenomenology

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About the eBook

The biophysics of diving and decompression in the human body are complex. The average individual experiences atmospheric pressure swings of 3% at sea level and over 20% at altitudes greater than a mile. Divers and their equipment can experience compressions and decompressions in orders of greater magnitude than pressures outside water, all within considerably shorter time spans. The understanding of the mechanics behind diving is based on absolute pressure and pressure changes. While these mechanics are readily quantified in physics, chemistry, and engineering applications, the physiological and medical aspects of pressure changes in living systems need to be understood clearly to assess the safety of routine divers.

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