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Underwater Construction - Challenges, Technologies, and Applications

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Abstract: *Underwater construction is a vital and specialized area of civil engineering, focused on designing and building infrastructure beneath bodies of water. It encompasses diverse projects such as underwater tunnels, offshore oil platforms, bridges, pipelines, and environmental monitoring stations. Due to the unique challenges posed by water pressure, limited accessibility, and environmental concerns, the field of underwater construction has witnessed advancements in technologies and techniques. This paper explores the challenges, methodologies, and applications of underwater construction and examines the future developments expected to shape this field, such as autonomous vehicles, advanced materials, and green construction practices.*

Keywords: Underwater construction

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