



Submarine Power Cables: Design, Installation, Repair, Environmental Aspects (Power Systems)

By Thomas Worzyk

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The demand for high-performance submarine power cables is increasing as more and more offshore wind parks are installed, and the national electric grids are interconnected. Submarine power cables are installed for the highest voltages and power to transport electric energy under the sea between islands, countries and even continents. The installation and operation of submarine power cables is much different from land cables. Still, in most textbooks on electrical power systems, information on submarine cables is scarce. This book is closing the gap. Different species of submarine power cables and their application are explained. Students and electric engineers learn on the electric and mechanic properties of submarine cables. Project developers and utility managers will gain useful information on the necessary marine activities such as pre-laying survey, cable lay vessels, guard boats etc., for the submarine cable installation and repair. Investors and decision makers will find an overview on environmental aspects of submarine power cables. A comprehensive reference list is given for those who want further reading.

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Editorial Review

Review

From the reviews:

“Submarine power cables are major transmission cables for carrying electric power below the surface of the water. ... This book fills that need. ... The reader will learn about cable design, manufacturing and testing, installation and protection, maintenance, and environmental issues. ... A repair example is also useful to provide the reader with practical repair knowledge. ... if you are working with underwater cable projects, this would be an excellent resource because the literature is very scarce for this technology.” (IEEE Electrical Insulation Magazine, Vol. 27 (6), November/December, 2010)

From the Back Cover

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