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Multilayer design of materials for marine underwater cables

By Uwe Rudorf

Shaker Verlag Apr 2011, 2011. Taschenbuch. Condition: Neu. Neuware - Cables are one of the most important and needed technical equipments for ocean technology. Each sensor and each actor must transmit signals to other electronic devices like computers, memories etc. Using wireless systems like acoustic or radio transmission is one way to achieve this, but there is another method to use wired systems - cables. For the power transmission - beside the use of batteries - it is necessary to integrate cables in each system. In a lot of cases it is necessary to use multilayer designs for metallic and non-metallic (plastic) elements of the cable. In most of the existing standards for cable materials are described test principles only for single layer materials, no application tests available for multilayer design of materials. But on the other hand some standardisation documents mainly for shipboard cables allow using multilayer designs for plastic insulation and sheathing materials. The publication describe in the first part different designs of cables with used multilayer materials. Also are given proposals for several definitions for kinds of multilayer design, mainly for the plastic materials. In the second part the publication contains the description of existing standards for...



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