

Abstract Details

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Title: A Review on Power Quality in Ship's Electrical System

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Abstract: This paper reviews the electrical power system quality onboard specifically in vessels with All Electric Propulsion (AEP). Going through the conventional to the latest Medium Voltage Direct Current (MVDC) distribution systems, the major power quality issues that arise onboard are discussed. Also some important power quality standards that are adopted by onboard vessels are briefly mentioned. In order to mitigate these power quality problems, it needs to be estimated and measured. So some of the works that are already carried out in the assessment, estimation, measurement and finally the mitigation of power quality problems are reviewed.

Keywords: All Electric Ship, MVDC Distribution, Harmonics, Power Quality.