



## الملتقى الدولي السابع للنشغيل و الصيانة في البلدان العربية The 7<sup>th</sup> int'l Operation & Maintenance Conference

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Paper Title: تقييم الأثار السلبية لمياه البحار المالحة على المباني الخرسانية بموانئ البحر المتوسط وطرق الصيانة والمعالجة

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The negative effects of Mediterranean see on the concrete buildings and methods of maintenance and treatment

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Reinforcing steel are the most suffering as a result of the salts negative impact on the various attributes of the concrete building. This impact has greatly affected the process of restoration and maintenance of ports. Study addresses the impact of the Mediterranean waters to all my concrete buildings of the port as well as Reinforcing parts for the process of construction of concrete buildings for harbors. The study included negative impacts on the physical, mechanical and chemical properties of

the port buildings were using impedance spectroscopy technology and electric polarization to study this effect was confirmed using the results SEM. The study included analysis of the results of these influences and the consequent recommendations for building maintenance as well as a model of the buildings after the treatment process and maintenance requirements according to the results of the study. The study pointed to the impact of plants on private buildings in ports and lower age of these ports result of these negative effects of the regulations help to identify times for operations and maintenance follow-up work and repairs to patrol ports treatments. . The results indicated in this segment to the possibility of partial replacement of the concrete components of the ports for less so the impact of sea water to these buildings.

The scientific committee of the seventh international operation and maintenance conference in the Arab countries is delighted to inform you that the paper you have submitted is approved.