

Failures in Electrical Systems, Equipments and Materials



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Electrical Eng.

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Abstract

Electrical systems, equipments and materials are subject to failures that can cause the total destruction of equipments and severe power outages. For this reason it is important to know the main causes of those failures, their consequences and the procedures and tests to be performed in order to find the reasons why equipment or its materials failed.

In this talk the speaker, based on his experience, refers most common causes of failures of electrical systems, equipments and materials, as well as the most appropriate measures to avoid those failures.

Wide application international standards are addressed in the talk, as well as national or European standards (EN) which must also be considered whenever required by the Owner or national regulations.

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<http://electrical-engineering-portal.com/maintenance-management-of-electrical-equipment-condition-monitoring-based-part-1>

Biography of the Speaker

Manuel Bolotinha has a degree in Electrical Engineering with a specialisation in Energy and Power Systems (1974), by Instituto Superior Técnico (former Technical University of Lisbon), where he was also Teaching Assistant in courses covering mathematics, statistics, electric materials and project of electricity generation and transmission.

Through more than four decades he has developed his professional activity in the fields of electrical installations design, its management, coordination and supervision. In the past years he has been carrying out several advanced technical training courses, particularly in Angola and Middle East. These courses mainly focus energy distribution grids, as well as project evaluation, management and control, among other issues where the knowledge gained in his career is determining.

Manuel Bolotinha is a certified professional trainer and a full senior member of the Portuguese Chamber of Engineers (Ordem dos Engenheiros), and he has authored several projects of electricity generation and transmission, industrial power grids and electrical infrastructures for airports and railways.

He is the author of the books:

- ***Gestão, Controlo e Análise de Projecto***, Chiado Editora, 2015.
- ***Manual Distribuição de Energia Eléctrica em Média e Baixa Tensão***, Engebook, 2016.
- ***Basics of HV, MV, and LV Installations***, Editora Ómega, 2017.

He is also author of several articles published in the technical magazines "O Electricista" (Publindústria), "Neutro à Terra" (ISEP, <http://neutroaterra.blogspot.pt/>) and in the Brazilian portal *Universo Lambda* (<http://universolambda.com.br/>).