



Conferencia

por

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título

“On the modelling of imperfect repairs for a continuously monitored gamma wear process through age reduction”

Abstract:

A continuously monitored system is considered, which is subject to accumulating deterioration modeled as a gamma process. The system fails when its degradation level exceeds a limit threshold. At failure, a delayed replacement is performed. To shorten the down period, a condition-based maintenance strategy is applied, with imperfect repair. Mimicking virtual age models used for recurrent events, imperfect repair actions are assumed to lower the system degradation through a first-order arithmetic reduction of age model. Under these assumptions, Markov renewal equations are obtained for several reliability indicators. Numerical examples illustrate the behavior of the system.

Fecha: Miércoles, 22 de octubre de 2014

Hora: 12:00 horas

Lugar: Aula 14, Edificio de Matemáticas, 1ª planta