

Mechanical Eng. SEMINAR

Prognostics and System Health Management for Industry 4.0

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Abstract

PHM (Prognostics and Health Management) is an enabling discipline that uses sensors to assess the health of systems, diagnoses anomalous behavior, and predicts the remaining useful performance over the life of products and systems. With PHM, one can achieve several powerful goals, such as providing advanced warning of failures; minimizing unscheduled maintenance; reducing the life cycle cost of equipment by decreasing inspection cost, downtime, and inventory; and improving qualification and assisting in design and logistical support of fielded and future systems. This talk presents recent advances and challenges in PHM for industrial applications. Various actual implementations, from interconnect to industrial transformer diagnosis and prognosis, will be given.



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