

Optimal maintenance strategy of industrial systems



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Professor Rui Peng
Beijing University of Technology,
Beijing, China

Abstract

Industrial systems may fail due to various failure modes, such as degradation. Thus, it is essential to study the maintenance strategies considering different types of constraints and different types of costs. In practice, different constraints may be faced and thus different maintenance strategies need to be made to adapt to different systems. This talk covers maintenance strategies of several systems with applications in energy systems, iron and steel production systems, etc.

About the Speaker

Rui PENG is a Professor and PhD supervisor in Beijing University of Technology. He obtained Bachelor's degree from University of Science and Technology of China, and his Ph.D. from National University of Singapore. His research topics include system reliability, system maintenance and system defense. He has published more than 120 SCI journal papers and two books by Springer. He is an Elsevier highly cited Chinese scholar from 2018-2022, and top 2% global scientist in 2022. He is in editorial board of Reliability Engineering & System Safety, Quality & Reliability Engineering International.