

Degradation modelling in mining and mineral processing equipment: a comparison of two statistical approaches



Virtual - Researchers Catch-up

In maintenance management, field measurements are a critical source of information. They are vital in diagnosing asset health, planning maintenance schedules, and capital budgeting. Field measurements can be noisy, masking the underlying wear process. Therefore, the effects of measurement variability may give misleading results, with economic and safety impacts. In this presentation, Gabriel walked us through two statistical methods used to model and predict degradation in the presence of noise. Along this line, he provided an overview of the most influential research in this area and pinpoint gaps that the Bayesian framework could address. The results of this research are valuable to reliability and maintenance engineers in improving current practices for quantitative risk assessment of assets under inspection programs.



Gabriel Jesus Gonzalez

PhD Student

Theme 2

2022-07-01