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Mengchu Song

The premise for designing a maintenance strategy is to understand clearly what functions are being demanded from the asset. Multilevel Flow Modeling (MFM) is a very methodology to provide unified functional knowledge for representing functions of assets and interactions. Using MFM for the maintenance decision support is twofold. One is to conduct the Reliability Centered Maintenance (RCM) analysis to determine the required maintenance should be corrective or preventive. For specific critical assets, meanwhile, MFM is used to develop a Condition-based Maintenance (CBM) approach to diagnose incipient failures before the functional failure occurs.