# MAINTENANCE DECISION SUPPORT MODELS FOR MEDIUM-SIZED INDUSTRIES



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# MAINTENANCE DECISION SUPPORT MODELS FOR MEDIUM-SIZED INDUSTRIES

In today's rapidly evolving industrial landscape, effective maintenance strategies can mean the difference between thriving and merely surviving. This groundbreaking book unveils cutting-edge approaches to industrial maintenance management, specifically tailored for decision-makers, engineers, and maintenance managers seeking to optimize their machines in production lines.

Drawing from an extensive research and practical applications, this comprehensive guide introduces innovative frameworks that bridge the gap between theoretical maintenance models and real-world implementation. The author presents a unique perspective on how medium-sized industries can leverage advanced decision support systems to enhance their maintenance operations while managing resource constraints.

Discover how industries can revolutionize their machinery maintenance practices through strategic implementation of modern methodologies using Decision-Making Grid model. Learn how to revolutionary insights into machine re-positioning strategies that optimize maintenance costs and derive advanced frameworks for implementing computerized maintenance management systems that respond to equipment failures.

Whether you are a maintenance manager seeking to optimize your department's performance, an industrial engineer looking to implement cutting-edge solutions, or a decision-maker aiming to transform your organization's maintenance practices, this book provides the tools and insights needed to succeed in today's competitive industrial environment.

Transform your approach to industrial maintenance with this essential guide that bridges theoretical frameworks with practical applications, ensuring your organization stays ahead in the ever-evolving industrial landscape.

**BURHANUDDIN MOHD ABOOBAIDER** is a Professor in Faculty of Artificial Intelligence and Cyber Security at Universiti Teknikal Malaysia Melaka (UTeM). He obtained his undergraduate degree, Bachelor of Science in Computer in 2002. He obtained postgraduate degree, Master of Science in Mathematics in 2004. He received his PhD in Computer Science in 2009. He is appointed as a full professor in UTeM since 2020. M.A. Burhanuddin has several years of leadership experience. He was appointed to UTeM-Melaka RICE Management Center as a Deputy Director; Industrial and Community Centre as a Director; UTeM International Centre as a Director; Smart Computing and Business Intelligent Cluster in Advanced Manufacturing Centre as a Department Head; Postgraduate studies in the Faculty of Information Communication Technology, UTeM as a Deputy Dean; Head of Department of Industrial computing; Group leader in Biomedical and Engineering Research Group in the Faculty of Artificial Intelligence and Cyber Security, UTeM.

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