



Dynamic Modeling and Evaluation of Recurring Infrastructure Maintenance Budget Determination Methods

By Matthew P. Jefson

Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x5 mm. This item is printed on demand - Print on Demand Neuware - The focus of this research is using system dynamics modeling to evaluate the impact of missed scheduled maintenance due to budgetary constraints. Missed maintenance cannot be made up and the benefit to the facility's serviceability is lost. The cumulative effect on an entire facility's life span is that it is unable to reach its designed life expectancy. Replacement construction costs are hundreds, thousands, or millions times more than the annual maintenance repair costs. Therefore, Air Force civil engineers must be capable of evaluating maintenance strategies in a dynamic environment to determine the budget strategy's prolonged effect on infrastructure serviceable life. The results of the evaluation demonstrate how five major categories of infrastructure maintenance budgets change infrastructure's serviceable life. The modeling process provides considerable insight into these budget methods that must be considered to determine what is best for the infrastructures serviceable life. 84 pp. Englisch.



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