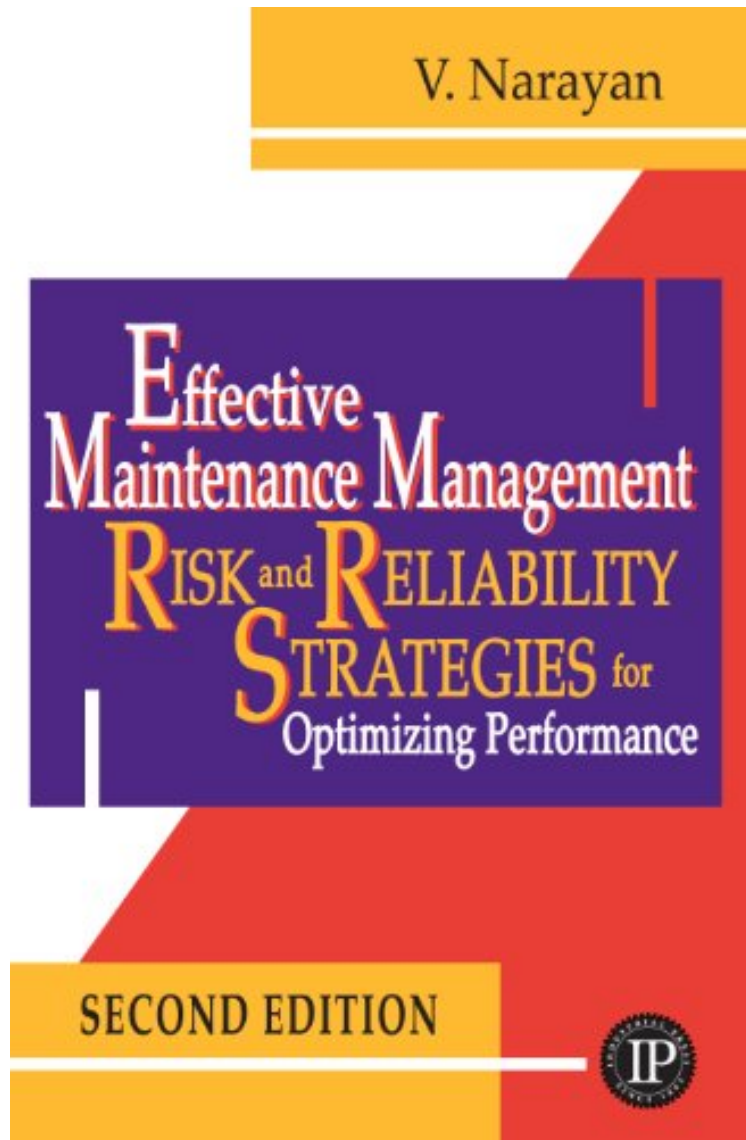


Effective Maintenance Management

V. Narayan

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V. Narayan : Effective Maintenance Management before purchasing it in order to gauge whether or not it would be worth my time, and all praised Effective Maintenance Management:

0 of 0 people found the following review helpful. Effective Maintenance Management By Alan B. I bought this book for my company's reliability engineer to use in improving our maintenance program. He has the book since delivery is very happy with it! 1 of 1 people found the following review helpful. REFERENCE BOOK FOR OPTIMIZING MAINTENANCE By Mahen Das REFERENCE BOOK FOR OPTIMIZING PERFORMANCE The process of maintenance management has evolved dramatically over the past half century. I as a practitioner (supervisor, manager

and later, consultant) in the process industry, from 1958 to 2008, have participated in this evolution. The purpose of plant maintenance is to preserve its technical integrity and ensure its availability as required by the business. With increasing competitive pressures, MAINTENANCE needed to be carried out as economically as possible. This meant determining what is the minimum amount of work which must be done, why it must be done, when should it be done, and the most efficient way or how best to execute this work. While much was known about how to execute work efficiently, identifying the, what, why and when, was mostly left to guess work. This was a gap in the maintainer's rational decision making. Narayan's book fills this gap in commendable manner. In language and style which every one from the top manager to the front line supervisor can understand, Narayan introduces the concept of risk, puts MAINTENANCE in the context of the various business risks, and explains how the what, why and when of maintenance can be determined in a rational, structured manner. This book gives invaluable help and direction in raising MAINTENANCE from "a necessary evil, putting great cost burden on the business" to "a business process helping the business achieve highest performance". In this second edition, two new chapters, 12 and 14, have been added, and chapters 8 and 10 have been enhanced. Chapter 12 is on the process of improving plant reliability which will lead to improved overall plant performance. Narayan gives pre-requisites, tips, tools and techniques for this. Chapter 14 is a useful summary of the book. In Chapter 8, two more disasters, the Longford and Sayano-Shshenskaya, have been described to further reinforce the event escalation theory. In Chapter 10, the techniques of Risk Based Inspection and Instrumented Protective Function are introduced. Application of these further optimizes the total cost of maintenance. For every practitioner whether a front line supervisor or a top manager, this is a complete reference book for making rational decisions for optimizing maintenance in the context of overall business performance. 0 of 0 people found the following review helpful. Proven Maintenance Reliability Recipes By JW Wardhaugh Narayan's thesis is that modern management is largely about managing risk i.e. identifying what is critical to your business and then focussing efforts on these aspects. In a technical environment this will promote business needed reliability, availability, and integrity. Nothing new here you might say, many other books will tell you this. What is new is that this book guides the reader to identify the issues, shows how to evaluate their criticality to the business and then gives solid time-proven tools, techniques and recipes to achieve required results. In particular, Chapter 12 on the reliability improvement process provides a road map and guidance to problems facing many practitioners. I was also happy to see additional risk based tools such as RBI and IPF being explained in simple language - most authors emphasize the use of RCM, but we need other tools and techniques too. In a book on risk and reliability, mathematics cannot be completely avoided; indeed some mathematics is vital to give a rigorous underpinning of many decisions. Narayan has simplified the essential mathematics giving fully worked through examples. Nowhere here do you find, "Hence it follows"! In summary this is a "How to" book which should find a place on the book shelf of each manager in a manufacturing location.

Provides a risk reduction model which links maintenance to these risks. Enables readers to make the link between maintenance on one hand and safety, profitability, and asset life on the other. Examines risks faced during the life cycle of a process plant. Discusses a high cost, high downtime maintenance activity, namely plant shutdowns. Provides an in-depth look at qualitative and quantitative risks. Includes a table of codes that can be used directly or adapted for use in most maintenance management systems. Keeps mathematics to a minimum. Includes chapter previews and summaries, a list of acronyms, and a glossary of terms. Providing readers with a clear rationale for doing maintenance, this completely updated edition and unique guide is written in a language and style that practicing engineers and managers can understand and apply easily. Effective Maintenance Management examines the role of maintenance in minimizing the risks relating to safety or environmental incidents, adverse publicity, and loss of profitability. In addition to discussing risk reduction tools, it explains their applicability to specific situations so the readers can select the tool that fits their requirements. Aiding to bridge the gap between designers/maintainers and reliability engineers, this guide is sure to help businesses utilize their assets effectively, safely, and profitably.

It is obvious that Vee has lived what he preaches about. He is not a theorist; he is a seasoned practitioner. He has worked out the 'bumps in the road' to true Reliability and now effectively shares his life experience so we don't hit the same speed bumps. I think his acronym GTBR sums up the key to Reliability....Getting the Basics Right! True Reliability is not merely a job; it is a way of life. It is about looking at the world through a pair of proactive lenses and ensuring there are no surprises. --Robert J. Latino (Hopewell, VA USA) On Page 230 of this book, Vee makes a series of profound statements which summarise the book and its approach. He writes: "There are many learned papers that address the application of reliability engineering theory to maintenance strategy discussions. Many of them use advanced mathematics to fine tune maintenance strategies. The authors have limited access to field data, and their recommendations are often abstract and difficult to apply. So these remain learned papers, which practitioners do not understand or cannot apply to real life situations". He goes on to say later that "This chasm between the designers and maintainers on the one hand and the reliability engineers on the other is what we have to bridge." I can not agree more with these statements. While this book ventures into statistics and probability theory in some areas, it does so in a

practical way and provides excellent guidance on such matters. Overall it is a practical book providing practical advice for people involved in maintenance and reliability management. It goes a long way to bridging the chasm that exists. This is a very good text that has a place in any maintainer's library. -Mr. Steve Turner "Reliability Consultant" (Melbourne Australia) This is without a doubt the best reliability text around. No rubbish just straight to the point strategies based on sound engineering. Its a small book but is perfectly suited as a quick reference. Kay Coady (Australia) What I like about this book is that it places maintenance in context of the wider society. I think in this bottom line world we know the cost of everything but perhaps the value of nothing so it is fundamental to really understand why it is necessary, or not, to maintain functional assets. The author explains with clarity those analytical processes applied to develop maintenance tasks that when appropriately implemented will reduce the probability of failure or degradation of functional assets. This is particularly important in any industry where the Operator must demonstrate risks are as low as are reasonably practicable. The book also explains how effective maintenance will not only ensure technical integrity but can reduce operating costs significantly and more importantly increase revenue streams through high equipment availability. I also find it very refreshing that in its wider context the book illuminates the human aspects related to the maintenance process and how different are our perceptions of risk. It is critically important to understand for example the behavioural aspects as to why, after appropriate maintenance tasks have been developed, non-compliance with these tasks may be endemic, and how different individual perceptions of risk may lead to flawed decision making. Bill Campbell (Glenrothes, Scotland, UK) This book explain all the steps in a process plant and the importance of maintenance to obtain results. Safety is always highlighted, due to the stretch relation with comply with the process. The author explain all the themes with excellent results, doing the reading very simple. It is an excellent book to introduce to maintenance and reliability --Ariel LeivaOn Page 230 of this book, Vee makes a series of profound statements which summarise the book and its approach. He writes: "There are many learned papers that address the application of reliability engineering theory to maintenance strategy discussions. Many of them use advanced mathematics to fine tune maintenance strategies. The authors have limited access to field data, and their recommendations are often abstract and difficult to apply. So these remain learned papers, which practitioners do not understand or cannot apply to real life situations". He goes on to say later that "This chasm between the designers and maintainers on the one hand and the reliability engineers on the other is what we have to bridge." I can not agree more with these statements. While this book ventures into statistics and probability theory in some areas, it does so in a practical way and provides excellent guidance on such matters. Overall it is a practical book providing practical advice for people involved in maintenance and reliability management. It goes a long way to bridging the chasm that exists. 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The author explain all the themes with excellent results, doing the reading very simple. It is an excellent book to introduce to maintenance and reliability --Ariel LeivaAbout the AuthorV. Narayan is a leading authority on maintenance and reliability engineering. A mechanical engineer with over 40 years of experience in maintenance and project management, he has worked in the automobile, pharmaceutical, liquefied natural gas, oil gas production, and petroleum refining industries. During his long career he has trained, consulted, and worked in many countries, including eight years as the head of the Maintenance Strategy group in Shell UK Exploration and Production. At Shell, Narayan was a founding member of the very successful MERIT initiative and developed refinery performance measurement methods in the 90 s that are still effectively used today. For about the past 20 years he has been teaching Maintenance Management, Reliability Centered Maintenance, and Root Cause Analysis around the world, and is the coauthor of Case Studies in Maintenance and Reliability: Practical Lessons from On-the-Job Experience (Industrial Press).