Analytical Fleet Maintenance Management

Third Edition
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Analytical Fleet Maintenance Management

Third Edition

John E. Dolce
This book is dedicated to my parents, Stella and John Dolce; my wife Arlene; my children Larraine, Madeline, Craig, and Stephanie; and my grandchildren Briana, Carlyn, Emma, and those to come.
Acknowledgments

A special thanks to my parents Stella and John Dolce, my wife Arlene, and our children Larraine, Madeline, Craig, and Stephanie for their support.

None of this would have been possible without the people of the transportation industry. Their dedication and desire to perform is what makes being a part of this industry enjoyable. Fleet people have a wealth of knowledge, and their efforts are supporting significant improvements in vehicle performance.

I hope this work will bring greater understanding of transportation industry management and, in some small way, contribute to its improvement.
Preface to the Third Edition

The first edition of Analytical Fleet Maintenance Management was published in 1994. The second edition followed in 1998 and was updated with new technologies and evolved best practices in fleet maintenance management.

This third edition, published in 2009, continues the upgrade process with two new chapters addressing fleet facility design and maintenance and fleet management leadership. Additionally, the arithmetic formulas throughout the book were reviewed and updated.

This new edition is intended to continue adding to the meaningfulness of fleet management practices and procedures by the entire industry. There also was a need to communicate these events, to enhance their effectiveness, and to provide a medium for continued improvement, progress, and efficiencies by the fleet community.
Preface to the Second Edition

The first edition of *Analytical Fleet Maintenance Management* was published in 1994. Since that time, new technological developments have occurred which can benefit fleet managers. As good managers, we must continually update our skills and knowledge in order to keep pace with this ever-changing world. Therefore, I hope that a second edition of this book will bring fleet managers up to date and help them continue to improve the performance of their fleets.

The information contained in the first edition of *Analytical Fleet Maintenance Management* has been thoroughly reviewed, updated, and expanded here. This new edition incorporates technologies that have become state of the art since the early 1990s, such as the data processing information discussed in Chapter 10.

In addition to updating and expanding the first edition, four new chapters have been added to the back of this second edition. The new chapters cover fleet trend reporting (Chapter 18), case studies (Chapter 19) that demonstrate effective techniques in resolving some of today’s typical fleet management problems, a comparison of centralized versus decentralized fleet operation in a utility environment (Chapter 20), and techniques for managing an equipment information system (Chapter 21). I hope that these new chapters add a further dimension to fleet managers’ understanding of their industry and enhance their effectiveness in managing their fleets as efficiently and productively as possible.
Preface to the First Edition

This book is written for all supervisors and managers with a responsibility in the areas of vehicle maintenance management. Practical, cost-effective principles and practices will be defined and illustrated. Issues discussed include what to measure, watch, and pay attention to for better continuous control.

*Analytical Fleet Maintenance Management* will serve as a field reference to practices and procedures used in the daily work operations with emphasis on the implementation of these cost-effective principles. Important ingredients of applying these practices and procedures are fact-finding, analysis, alternative selection, and communication to ensure the proper application of these principles.

This book is written in simple, basic terms using the profit dollar as the basis for guidelines of action to be taken. These guidelines are generally accepted by the commercial motor transportation industry. The action taken can be referred to by all levels of management because the common reference point is the profit and growth dollar.

Productivity savings will be realized. Each management person involved in the fleet management area should be able to understand this information and apply it to realize a productivity savings.

Change is necessary for a productivity improvement. Change costs money. Will the cost of change be recovered in the savings resulting from it? If so, it is worth implementing.

The applications and implementation of these principles in a stress environment takes skill. These principles and skills are the subject matter of this text.
It is hoped that this work will increase fleet managers' understanding of the transportation industry and serve as a guide in adding to their skills so when applied, the results will extend to the improvements of their fleet's performance.
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