

Preface

When one reads a book, and cannot stop reading, it means that the book is pleasant and that, somehow, generates the expectation of the reader to continue reading compulsively until the end. The same happens with a play or a film. If the spectator begins to feel uncomfortable in his armchair, it is a signal that the play/film is decaying in interest. By the opposite, nobody moves, even in uncomfortable armchairs, and a spectator will keep his position until the end.

This happens with Jose Luis' book. Those of us that love Engineering and the resolution of its problems find in this work the right synthesis of what we always have looked for in books of the specialty. As mentioned in the prologue, this book answers why a failure occurred that jeopardized the integrity of a component or piece; the conditions that led to this failure and, finally, what we must do so that it does not repeat.

This book has been written by an education professional, also a successful researcher in this area as well as other areas of engineering, who has permanently performed consulting activities. In this book, the author pours all his experience in the prediction of damage, fitness for service, and reliability in concrete problems of professional life.

Therefore, this work that comes to light today covers all the expectations that are looked for to satisfy the high demand of specialized human resources in the selection, application, optimal operation, and service of industrial pieces and components. It will allow, in addition, forging highly enabled professionals, apt to work in projects in different economic sectors. I take for granted the success of this contribution by my colleague and friend of so many years.

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