

The Origin of MIRCE Science

This book is about the journey over the road that the author has travelled since birth till today, but it is not a book about him; it is a book about the quest for the new body of knowledge that he named MIRCE Science, without reasonable excuse! This journey consisted of two paths:

- The first started with his childhood obsession with cars and autosport, progressing to building one by hand, using parts obtained from scrap yards, in a neighbour's garden. Two years later driving that car he earned one point in the National Rally Championship, while experiencing the physical reality of operation, maintenance and support processes.
- The second took the author to universities, libraries, institutes, companies and other organisations worldwide, in the quest for relevant knowledge of science and mathematics, the complexity of which, according to Jack Hessburg (1934-2013), the World's first Chief Mechanic (Boeing 777), required the intellectual effort equal to winning a Nobel Prize!

Both paths converged 40 years later to form MIRCE Science, the theory for predicting functionability performance of functionable system types. MIRCE Science enables designers and project managers to quantitatively predict, life long, positive and negative functionability work and corresponding costs for each feasible option of the future functionable system type, concurrently considering functional solutions with operational, maintenance and support options, by applying MIRCE Science originated:

Functionability, Operability, Maintainability, Supportability and Profitability Equations, the mathematical derivation of which has been fully described in this book.

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