

# The Origin of MIRCE Science

Jezdimir Knezevic



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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, the theory for predicting functionability performance of functional system types. This long and demanding journey consisted of three 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 phenomena of operation, maintenance and support processes (Part 1 of the book).
- The second took the author to universities, libraries, institutes, companies and other organisations worldwide, in the quest for the scientific understanding of the mechanisms that lead to the occurrence of functionability events, resulting from physical, environmental and human actions. (Part 2 of the book).

- The third culminated in the creation of

MIRCE: Functionability, Operability, Maintainability, Supportability and Profitability Equations, the mathematical derivation of which has been fully described in this book, based on MIRCE: Functionability Field and Space. (Part 3 of the book).

MIRCE Science comprises axioms, laws, mathematical equations and calculation methods that enable quantitative predictions of the impact of the physical world and in-service rules on the functionability performance of each feasible option of the future functional system type to be made. The complexity of this undertaking, according to Jack Hessburg (1934-2013), the World's first Chief Mechanic (Boeing 777), requires the intellectual effort equal to winning a Nobel Prize!

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