



## Solving Engineering Problems (Paperback)

By Carl F Zorowski

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Solving practical problems in everyday engineering practice is a far cry from the textbook exercises experienced in academia. Real engineering problems are more complex and generally ill defined; containing poorly stated needs, extraneous information, conflicting goals and other complicating factors. These problems require the skills of creativity and innovation to synthesize and analyze information and knowledge through a logical progression of tasks to arrive at meaningful effective solutions. This monograph investigates the roles of synthesis and analysis as mental activities together with how they relate to creativity and innovation. A set of sequential tasks is presented that defines a generic problem solving process based on synthesis and analysis. Several real engineering problems with detailed solutions demonstrate the application of this Engineering Practice Process problem solving procedure.

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