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**Engineering Problem** solving is a knowledge-rich domain where effective control knowledge is needed to create efficient solutions. Compared to knowledge-poor domains, in **Engineering Problem** solving the problem space is larger, making the problem solver more dependent on control knowledge.

engineering and to solve them requires creativity, teamwork, and broad knowledge. The approach to solving an **Engineering Problem** should proceed in an orderly,

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stepwise fashion, but often problem solving is an iterative procedure. To become a good problem solver, an

the **Engineering Problems** using differential equations from physical principles and to solve the differential equations using the easiest possible method. Such a detailed, step-by-step approach, especially when applied to practical **Engineering Problems**, helps the readers to develop problem ...

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**Engineering Problem Solving** How to Engineers approach a problem? Problem Type: What is the underlying mechanism/theory? Use: Scientific Method Define the Problem Research what's been done before Lots of thinking Form a

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hypothesis (testable prediction) Test  
Hypothesis (actual experiment)

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example of an **Engineering Problem** and  
its creative solution. The theory of the  
conditions is then unfolded through an

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informal discussion that helps the reader get the feel of the theory. This is followed by a formal presentation of the conditions.

the **Engineering Problems** using differential equations from physical principles and to solve the differential equations using the easiest possible method. Such a detailed, step-by-step approach, especially when applied to practical **Engineering Problems**, helps the readers to develop problem ...

and how they relate to engineering and scientific problem solving – Learning how mathematical models can be formulated on the basis of scientific principles to simulate the behavior of a simple physical system –

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