



Discussion of the Method: Conducting the Engineer's Approach to Problem Solving (Engineering & Technology)

Billy Vaughn Koen

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"While the study of the engineering method is important *to create* the world we would have, its study is equally important *to understand* the world we do have."

--Billy V. Koen, Introduction, *Discussion of the Method*

Discussion of the Method outlines the heuristic-based reasoning used by engineers and generalizes it to a universal method for problem-solving. Delving into the connection between engineering and philosophy, this ground-breaking text illustrates how the theoretical and the practical can merge to form real-world solutions. Furthermore, the methodology covered in this innovative book is extremely user-friendly, and easily synthesized with individual approaches to problem-solving. *Discussion of the Method* is an ideal supplement for introductory and advanced courses in engineering, philosophy, and other disciplines, as well as a compelling read for general audiences.

THE METHOD: AN OVERVIEW

·**Part I** describes the problem situation that calls for the talents of the engineer and emphasizes how frequently this situation is encountered.

·**Part II** defines the heuristic and the engineering method.

·**Part III** lists examples of heuristics and techniques used to implement the engineering method, describes several alternative definitions of the engineering method, and renders the method in its final form.

·**Part IV** generalizes the engineering method to a universal method.

·**Part V** gives a concise, justifiable statement of universal method.

·**Part VI** delivers a specific example of the universal method in use.

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