5. *Diagnostics*

Problem too large—when the appropriate condition of section B3 is violated.

Inadmissible case—when, for example IP = 2 is

specified; or IP = 4 with numerical data.

6. *General.* As before it is not possible to perform an inverse analysis after a normal one and vice versa, without re-reading the data.

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Book Reviews

Analogues for the Solution of Boundary-Value Problems, by B. A. Volynskii and V. Ye Bukhman, 1965; 460 pages. (Oxford: *Pergamon Press*, 90s.)

This book could be of value to anyone interested in the solution of partial differential equations with boundary values. Although the emphasis in the book is on analogue methods of solution, this is because the authors have found that for many problems that they have studied in detail analogue techniques are preferable. Although the book was originally written in 1960 this first British edition has a specially written preface and a chapter describing the later work in the USSR. Even in the original edition the authors made a plea for hybrid computers, and their desire now is for a hybrid computer that contains digital, electronic analogue and network analogue, all fully programmable.

The layout of the book is rather unusual in that after the introduction in the first chapter the next two chapters contain, respectively, examples of how problems should be formulated and the mathematical methods available for the solution of such problems. Chapter 4 deals with the computational problems, while the following five chapters deal with specific analogue methods, mainly by the use of networks.

The book is a pleasure to read; it is written with an enthusiasm and humility that the translator and editor have carried over into the present edition so that the book is more "live" than are many translations. The publisher is to be complimented on the printing and format. The bibliography is poor.

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