

Orthogonal Functions, (8) Laplace Partial Differential Equation and Special Functions, (9) Examination Questions in Special Functions and (10) Tables of Special Functions.

Further comments on the first eight chapters are not required in view of our previous remarks. Chapter 9 is a list of exercises taken from examinations given to students by the Electrotechnical Faculty of the University of Beograd. Chapter 10 contains 5D tables of the basic functions pertinent to the material of Chapters 1–8. Thus, there are tables of the gamma function and its logarithmic derivative, the classical orthogonal polynomials and the various Bessel functions.

A bibliography and notation index enhance the usefulness of the volume.

Y.L.L.

24 [7].—D. S. MITRINOVIC, with the assistance of D. D. TOSIC & R. R. JANIC, *Specijalne Funkcije—Zbornik Zadataka i Problema (A Collection of Exercises and Problems)* (in Serbo-Croatian), Naučna Prjiga, Beograd, 1972, xii + 158 pp., 24 cm.

This work contains 375 problems. It can be considered a companion volume to the above reviewed *Special Functions* by the same author. The general remarks made there also pertain here. The first six chapters in both volumes have the same titles. Here, Chapter 7 is a collection of miscellaneous problems.

Except for Chapter 7, each chapter is in two parts. The first part states basic definitions and the second gives problems, all of which can be solved by use of the data in the first part. For the more difficult problems, hints are given and, in certain instances, there are references to the literature. Many of the problems are taken from the problem sections of such journals as *Matematicki Vesnik*, *American Mathematical Monthly* and *Mathematical Gazette*.

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25 [7].—C. J. TRANTER, *Bessel Functions with Some Physical Applications*, Hart Publishing Co., Inc., New York, 1969, ix + 148 pp., 24 cm. Price \$10.00.

I quote the first paragraph from the author's preface: "The classic work on Bessel functions is G. N. Watson's monumental treatise. This great work was completed in 1922 and therefore lacks references to developments in the subject during the last forty-five years. Its high standard of rigour and great size also make it somewhat forbidding to the scientist who is only interested in applications to physical problems. I have consequently attempted in the present book to provide a short up-to-date account of Bessel functions which will be useful to the increasing number of scientists and engineers who encounter these functions in their work."

The volume is divided into eight easily read chapters. The chapter titles are indicative of the material covered and are as follows: 1. The solution of Bessel's and associated equations. 2. Some indefinite integrals, expansions and addition