stituted college student will be prepared to digest such a large and detailed text devoted to a subject which represents a relatively minor part of his curriculum. Furthermore the text is at the moment quite unsuitable for use in conjunction with a course of lectures. It would, in the reviewer's opinion, have to be reorganized considerably for this purpose.

Perhaps the most appropriate rôle which might be allocated to this book is that of a text and reference work for relatively junior staff serving a computing installation which uses FORTRAN IV as its principal machine language.

The book is rather shoddily put together; for example, in the reviewer's copy two pages are interchanged.

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84[Z, X].—INSTITUTO GULBENKIAN DE CIENCIA, Centro de Calculo Cientifico, *Sistema de Programacao, Fortran 2*, Lisbon, 1964, 150 pp., 25 cm. Price Escudos 65 (Paperbound).

In the recent past, English literature has been graced by a number of texts which expound the programming language FORTRAN and show, by means of worked examples, how this language may be used in scientific computation. We are now offered such a book in Portuguese.

The book is brilliantly successful. In the first part (seventy-eight pages) we are introduced to the elements of the language and shown the various constructions of which it is capable; in the second part (seventy pages) some thirteen complete programs are given, together with specimen numerical results. In order to impart to the reader some idea of the scope of this text, let me list the subjects of some of these programs: Euler's transformation of a series, integration by Simpson's rule, the Runge-Kutta method, inversion of matrices by Jordan's method, Gauss-Seidel iteration, largest eigenvalue of a matrix, summing a Chebyshev series by Clenshaw's method, curve fitting by means of orthogonal polynomials, calculation of the gamma-function, and Bairstow's method for finding the roots of a polynomial.

The entire book makes a most pleasing impression. The material is elegantly subdivided, the examples are skillfully placed, and the exposition has been handled with a competence of the highest order.

Undoubtedly this book will do much to promote scientific computation in Portuguese speaking countries.

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