

separation of variables and uniqueness and stability results by means of energy and maximum norm a priori estimates.

Although over the last few years a number of treatments of partial differential equations have appeared, I have found it hard to find any particular book which is an ideal beginning graduate level text. Particularly in the subject under consideration, it is very hard to find the right balance between too much and too little, both in sophistication and in quantity of material. I think this book is what I have been waiting for. The translation is not perfect.

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24[7].—HENRY E. FETTIS & JAMES C. CASLIN, *Ten Place Tables of the Jacobian Elliptic Functions: Part III*, Report ARL 71-0081, Aerospace Research Laboratories, Air Force Systems Command, United States Air Force, Wright-Patterson Air Force Base, Ohio, May 1971, iv + 449 pp., 28 cm. Copies obtainable from the National Technical Information Service, Operations Division, Springfield, Virginia 22151. Price \$3.00.

This report has been designed to supplement Part I [1] of these tables in the vicinity of  $k^2 = 1$ . Specifically, herein are tabulated 10D values of the Jacobian elliptic functions  $am(u, k)$ ,  $sn(u, k)$ ,  $cn(u, k)$ , and  $dn(u, k)$ , as well as the elliptic integral  $E(am(u, k))$ , for  $k^2 = 0.950(0.001)0.999$  and  $u = 0(0.01)K(k)$ . Also, the headings of the tables include corresponding 10D values of  $K(k)$  and  $E(k)/K(k)$ , where  $K(k)$  and  $E(k)$  conventionally represent the complete elliptic integrals of the first and second kinds, respectively.

As in the preparation of [1], the underlying calculations of these extensive tables were performed on an IBM 7094 system.

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1. HENRY E. FETTIS & JAMES C. CASLIN, *Ten Place Tables of the Jacobian Elliptic Functions, Part 1*, Report ARL 65-180, Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio, September 1965. (See *Math. Comp.*, v. 21, 1967, pp. 264–265, RMT 25.)

25[7].—SWARNALATA PRABHU, *Tables of the Incomplete Beta Function for Small Values of the Parameters*, Indian Institute of Science, Bangalore, India, v + 250 pp., 27 cm. (paperbound). Copy deposited in the UMT file.

These tables consist of 6S values of the incomplete Beta function  $B_x(p, q)$  for  $x = 0.01(0.01)0.50$  and  $p, q = 0.02(0.02)0.50$ , together with 6 or 7S values of  $B(p, q)$  for the same range of  $p$  and  $q$ .

The underlying calculations were performed to 8S on a National Elliott 803 electronic computer, and the results corresponding to  $p = 0.5$  and  $q = 0.5$  were