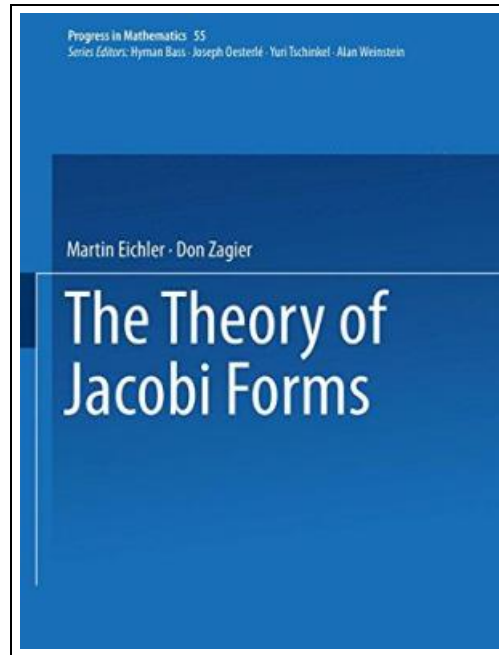


## The Theory of Jacobi Forms (Paperback)



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BIRKHAUSER BOSTON INC, United States, 2013. Paperback. Condition: New. 1985 ed.. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. The functions studied in this monograph are a cross between elliptic functions and modular forms in one variable. Specifically, we define a Jacobi form on  $SL(2, \mathbb{Z})$  to be a holomorphic function  $f$  on the upper half-plane satisfying the transformation equations  $f\left(\frac{c\tau + d}{a\tau + b}, z\right) = (c\tau + d)^{-k} e^{2\pi i m z^2 / (a\tau + b)}$  for  $\begin{pmatrix} a & b \\ c & d \end{pmatrix} \in SL(2, \mathbb{Z})$  and having a Fourier expansion of the form  $\sum_{n \geq 0} \sum_{r \in \mathbb{Z}} c(n, r) e^{2\pi i (nz + r\tau)}$ . Here  $k$  and  $m$  are natural numbers, called the weight and index of  $f$ , respectively. Note that the function  $c_p(T, 0)$  is an ordinary modular form of weight  $k$ , while for fixed  $T$  the function  $z \mapsto c_p(-r, z)$  is a function of the type normally used to embed the elliptic curve  $y^2 = 4x^3 - g_2x - g_3$  into a projective space. If  $m = 0$ , then  $c_p$  is independent of  $z$  and the definition reduces to the usual notion of modular forms in one variable. We give three other examples of situations where functions satisfying (1)-(3) arise classically: 1. Theta series. Let  $Q$  be a positive definite integer valued quadratic form and  $B$  the associated bilinear form.



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