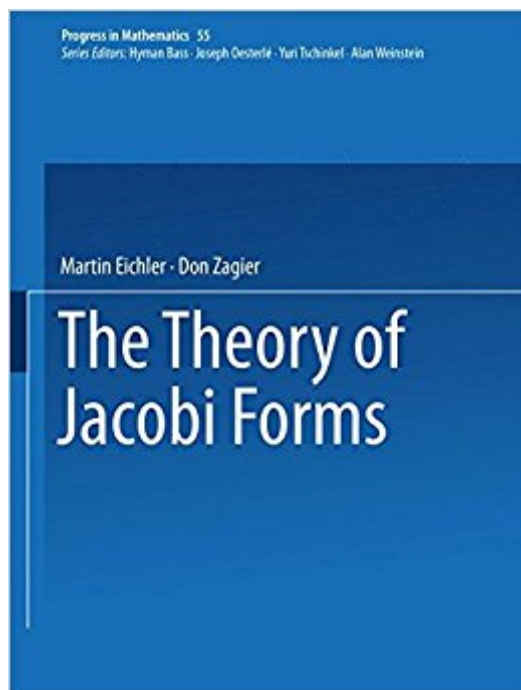


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The Theory Of Jacobi Forms (Progress In Mathematics)



Synopsis

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 ϕ on the upper half-plane satisfying the transformation equations $\phi\left(\frac{cT+d}{cT+d'}, \frac{z+h+jl}{cT+d}\right) = (cT+d)^{-k} \phi(T, z)$ (1) $\phi(T, z+h+jl) = \phi(T, z)$ (2) $\phi(T, z) = \sum_{n \geq 0} \sum_{r \in \mathbb{Z}} c(n, r) e^{2\pi i(nT + rz)}$ (3) $c(n, r) = 0$ if $n < 0$ or $4n \neq r^2$. Here k and m are natural numbers, called the weight and index of ϕ , respectively. Note that the function $\phi(T, 0)$ is an ordinary modular form of weight k , while for fixed T the function $z \mapsto \phi(-r, z)$ 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 ϕ 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 $Q: \mathbb{Z}^n \rightarrow \mathbb{R}$ be a positive definite integer valued quadratic form and B the associated bilinear form.

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