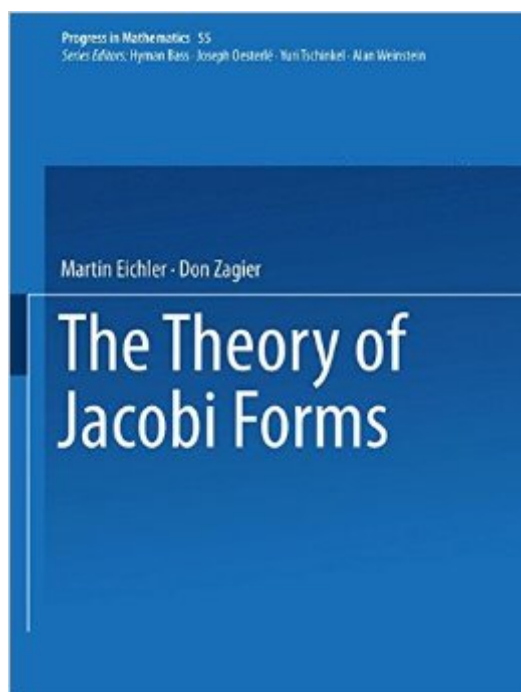


The book was found

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 f on the upper half-plane satisfying the transformation equations $f\left(\frac{cT+d}{cT+d'}, \frac{z+h+jl}{cT+d}\right) = (cT+d)^{-k} f(T, z)$ (1) $f(T, z+h+jl) = f(T, z)$ (2) $f(T, z) = \sum_{n \geq 0} \sum_{r \in \mathbb{Z}} c(n, r) e^{2\pi i(nT + rz)}$ (3) $c(n, r) = 0$ if $n < 0$ or $4nm - k^2 < 0$. Here k and m are natural numbers, called the weight and index of f , respectively. Note that the function $f(T, 0)$ is an ordinary modular form of weight k , while for fixed T the function $z \mapsto f(-r, z)$ 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 f 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.

Book Information

Series: Progress in Mathematics (Book 55)

Paperback: 150 pages

Publisher: Birkhäuser; 1985 edition (September 14, 2013)

Language: English

ISBN-10: 1468491644

ISBN-13: 978-1468491647

Product Dimensions: 7 x 0.3 x 10 inches

Shipping Weight: 8 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,992,859 in Books (See Top 100 in Books) #306 in Books > Science & Math > Mathematics > Pure Mathematics > Group Theory #308 in Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry #366 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Abstract

[Download to continue reading...](#)

The Theory of Jacobi Forms (Progress in Mathematics) The Autobiography of Emperor Haile Sellassie I: King of Kings of All Ethiopia and Lord of All Lords (My Life and Ethiopia's Progress) (My Life and ... (My Life and Ethiopia's Progress (Paperback)) Lectures on Riemann Surfaces: Jacobi Varieties (Princeton Legacy Library) Spectral Theory of Infinite-Area Hyperbolic Surfaces (Progress in Mathematics) How To Create Word Forms With ActiveX Controls (How To Create Forms In Word

& Excel 2010) Residential Inspector's Guide to Codes, Forms, & Complaints (Residential Inspector's Guide to Codes, Forms, and Complaints) Contractor's legal forms and guides (500 legal forms book series for alllegaldocuments.com 1) Winning Your Personal Injury Claim: With Sample Forms and Worksheets (Self-Help Law Kit With Forms) The Encyclopedia of Real Estate Forms & Agreements: A Complete Kit of Ready-to-Use Checklists, Worksheets, Forms, and Contracts - With Companion CD-ROM Pharmaceutical Dosage Forms: Tablets, Third Edition (Three-Volume Set): Pharmaceutical Dosage Forms: Tablets, Volume 1, Second Edition Database Design and Relational Theory: Normal Forms and All That Jazz (Theory in Practice) Tensors, Differential Forms, and Variational Principles (Dover Books on Mathematics) A First Course in Modular Forms (Graduate Texts in Mathematics) Manifolds and Modular Forms, Vol. E20 (Aspects of Mathematics) Introduction to the Theory of (Non-Symmetric) Dirichlet Forms (Universitext) Unglued Devotional: 60 Days of Imperfect Progress RenÃ© Redzepi: A Work in Progress An Introduction to Data Structures and Algorithms (Progress in Theoretical Computer Science) Dancing in the Rain: Stories of Exceptional Progress by Parents of Children with Special Needs In Vivo Models of Inflammation 2 Volume Set(Progress in Inflammation Research) (v. 1&2)

[Dmca](#)