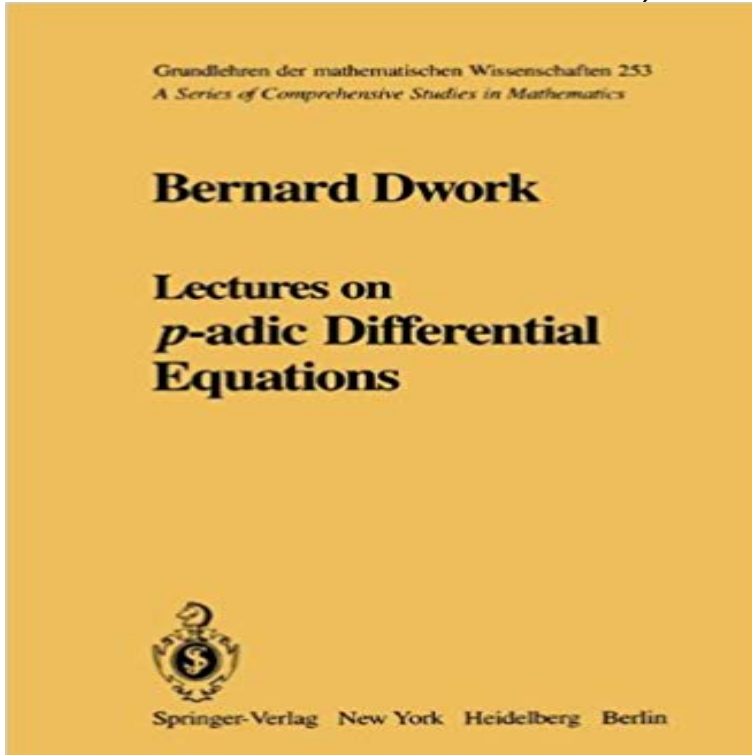


Lectures on p-adic Differential Equations (Grundlehren der mathematischen Wissenschaften)



The present work treats p-adic properties of solutions of the hypergeometric differential equation $d^2 y/dx^2 + (c(1-x) + (c-1-a-b)x)dy/dx - aby = 0$, $2 \leq n \leq 4$, $n \in \mathbb{Z}_p$, by constructing the associated Frobenius structure. For this construction we draw upon the methods of Alan Adolphson [1] in his 1976 work on Hecke polynomials. We are also indebted to him for the account (appearing as an appendix) of the relation between this differential equation and certain L-functions. We are indebted to G. Washnitzer for the method used in the construction of our dual theory (Chapter 2). These notes represent an expanded form of lectures given at the U. L. P. in Strasbourg during the fall term of 1980. We take this opportunity to thank Professor R. Girard and IRMA for their hospitality. Our subject-p-adic analysis was founded by Marc Krasner. We take pleasure in dedicating this work to him.

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