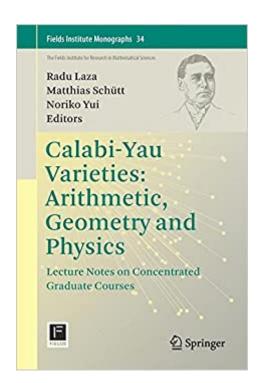


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# Calabi-Yau Varieties: Arithmetic, Geometry And Physics: Lecture Notes On Concentrated Graduate Courses (Fields Institute Monographs)





## **Synopsis**

This volumeà presents a lively introduction to the rapidly developing and vast research areas surroundingà Calabiâ⠬⠜Yau varieties and string theory.à With its coverage of the various perspectives of a wide area of topics such as Hodge theory,à Grossâ⠬⠜Siebert program, moduli problems, toric approach, and arithmetic aspects, the book gives a comprehensive overview of the current streams of mathematical research in the area.The contributions in this book are basedà on lectures that took place during workshops with the following thematicà titles: â⠬Š"Modular Forms Around String Theory,â⠬ • â⠬Š"Enumerativeà Geometry and Calabiâ⠬⠜Yau Varieties,â⠬ • â⠬Š"Physics Around Mirror Symmetry,â⠬ • â⠬ "Hodge Theoryà in String Theory.â⠬ • à ŠThe book is ideal for graduate students and researchers learning aboutà Calabiâ⠬⠜Yau varieties as well as physics students and string theorists who wish to learn the mathematics behind these varieties.

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