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Autore	Thakur Dinesh S. <1961->
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Nota di contenuto	Function Field Arithmetic; Contents; 1. Number fields and Function fields; 2. Drinfeld modules; 3. Explicit class field theory; 4. Gauss sums and Gamma functions; 5. Zeta functions; 6. Higher rank theory; 7. Higher dimensions and geometric tools; 8. Applications to Gauss sums, Gamma and Zeta values; 9. Diophantine approximation; 10. Transcendence results; 11. Automata and algebraicity: Applications; Note on the Notation; Bibliography
Sommario/riassunto	This book provides an exposition of function field arithmetic with emphasis on recent developments concerning Drinfeld modules, the arithmetic of special values of transcendental functions (such as zeta and gamma functions and their interpolations), diophantine approximation and related interesting open problems.