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   Sommario/riassunto   The theory of explicit formulas for regularized products and series
                        forms a natural continuation of the analytic theory developed in LNM
                        1564. These explicit formulas can be used to describe the quantitative
                        behavior of various objects in analytic number theory and spectral
                        theory. The present book deals with other applications arising from
                        Gaussian test functions, leading to theta inversion formulas and
                        corresponding new types of zeta functions which are Gaussian
                        transforms of theta series rather than Mellin transforms, and satisfy
                        additive functional equations. Their wide range of applications includes
                        the spectral theory of a broad class of manifolds and also the theory of
                        zeta functions in number theory and representation theory. Here the
                        hyperbolic 3-manifolds are given as a significant example.