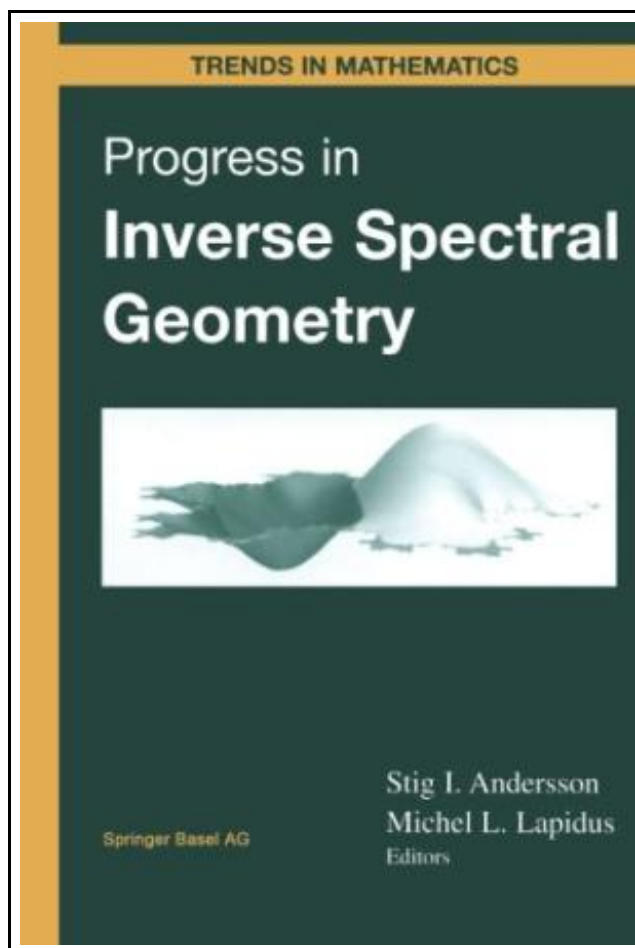


Progress in Inverse Spectral Geometry



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Reviews

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PROGRESS IN INVERSE SPECTRAL GEOMETRY



Book Condition: New. Publisher/Verlag: Springer, Basel | most polynomial growth on every half-space $\text{Re}(z) \geq 0$. Moreover, $\text{Op}(t)$ depends holomorphically on t for $\text{Re } t > 0$. General references for much of the material on the derivation of spectral functions, asymptotic expansions and analytic properties of spectral functions are [A-P-S] and [Sh], especially Chapter 2. To study the spectral functions and their relation to the geometry and topology of X , one could, for example, take the natural associated parabolic problem as a starting point. That is, consider the 'heat equation': $(\partial_t + p) u(x, t) = 0$ $\{ u(x, 0) = u_0(x), t \in \mathbb{R}^+$ which is solved by means of the (heat) semi group $V(t) = e^{-tP}$; namely, $u(x, t) = V(t)u_0$. Assuming that $V(t)$ is of trace class (which is guaranteed, for instance, if P has a positive principal symbol), it has a Schwartz kernel $K \in \mathcal{COO}(X \times X \times \mathbb{R}^+, E \otimes E)$, locally given by $K(x, y; t) = L^{-1} \sum_{k=0}^{\infty} e^{-t \lambda_k} \langle \cdot, P^k \rangle(X, y)$, $k=0$ for a complete set of orthonormal eigensections $\langle \cdot, P^k \rangle \in \mathcal{COO}(E)$. Taking the trace, we then obtain: $\int_0^\infty \text{tr} \text{Op}(t) dt = \sum_{k=0}^{\infty} \frac{1}{\lambda_k} = 2\pi^{-1} \int_C \text{tr} V(t) dt$. Now, using, e. g., the Dunford calculus formula (where C is a suitable curve around $a(P)$) as a starting point and the standard formalism of pseudodifferential operators, one easily derives asymptotic expansions for the spectral functions, in this case for Op . | Spectral Geometry: An Introduction and Background Material for this Volume.- Geometry Detected by a Finite Part of the Spectrum.- Spectral Geometry on Nilmanifolds.- Upper Bounds for the Poincaré Metric Near a Fractal Boundary.- Construction de Variétés Isospectrales du Théorème de T. Sunada.- Inverse spectral theory for Riemannian foliations and curvature theory.- Computer Graphics and the Eigenfunctions for the Koch Snowflake Drum.- Inverse Spectral Geometry.- Inverse Spectral...



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