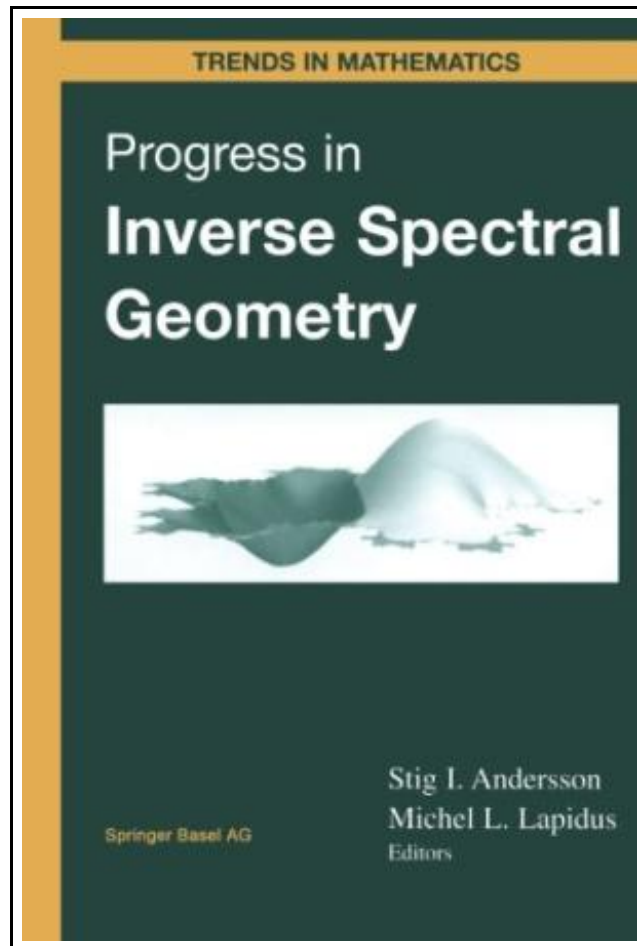


## Progress in Inverse Spectral Geometry



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### ***Reviews***

*It is fantastic and great. It is written in easy words and phrases instead of confusing. I am just delighted to explain how this is actually the best book I have got read through during my individual life and might be the finest publication for ever.*

***(Prof. Murl Shanahan DDS)***

## 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':  $(\partial_t + p) u(x, t) = 0$   $\{ u(x, 0) = u_0(x), t \geq 0$  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  $K(t; x, y) \in C^\infty(X \times X \times \mathbb{R}_+, E \otimes E)$ , locally given by  $K(x, y; t) = L^{-1} \text{Tr}(\tilde{K}(t; \cdot, \cdot) \circ P_k)(X, y)$ ,  $k=0$  for a complete set of orthonormal eigensections  $\{P_k\} \in C^\infty(E)$ . Taking the trace, we then obtain:  $\int_0^\infty \text{Tr} \text{Op}(t) dt = \text{trace}(V(1)) = 2\pi \sum_{k=0}^\infty \langle P_k, P_k \rangle$ . 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  $\text{Op}$ . | 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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