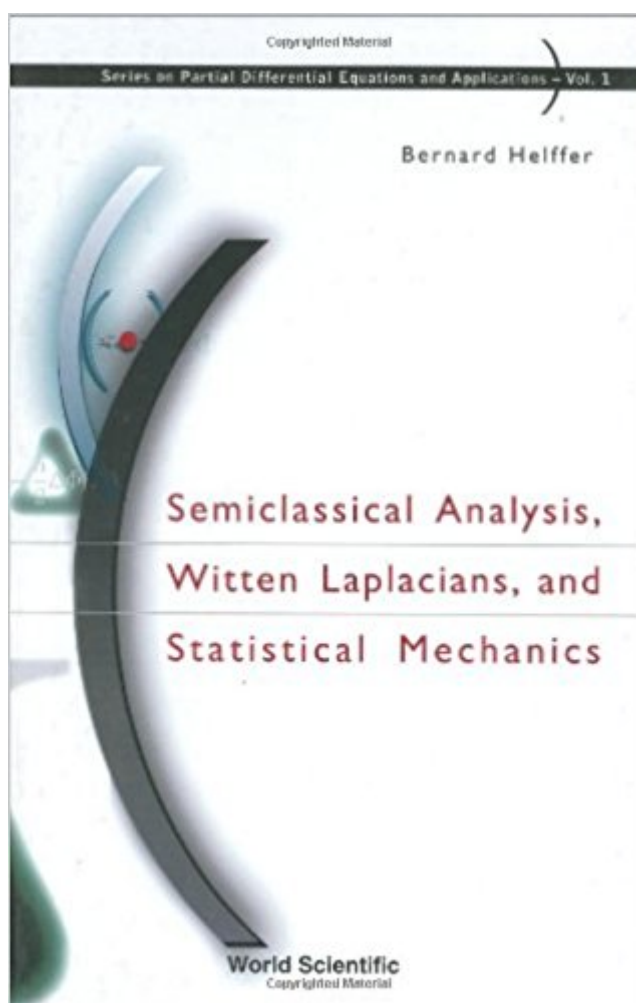


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Synopsis

This important book explains how the technique of Witten Laplacians may be useful in statistical mechanics. It considers the problem of analyzing the decay of correlations, after presenting its origin in statistical mechanics. In addition, it compares the Witten Laplacian approach with other techniques, such as the transfer matrix approach and its semiclassical analysis. The author concludes by providing a complete proof of the uniform Log-Sobolev inequality.

Book Information

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Bernard Helffer is a professor at the University Paris-Sud, Paris. He is specializing in semi-classical analysis and its applications in statistical physics. He has published over 150 papers in major journals.

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