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By Yanlin Yu
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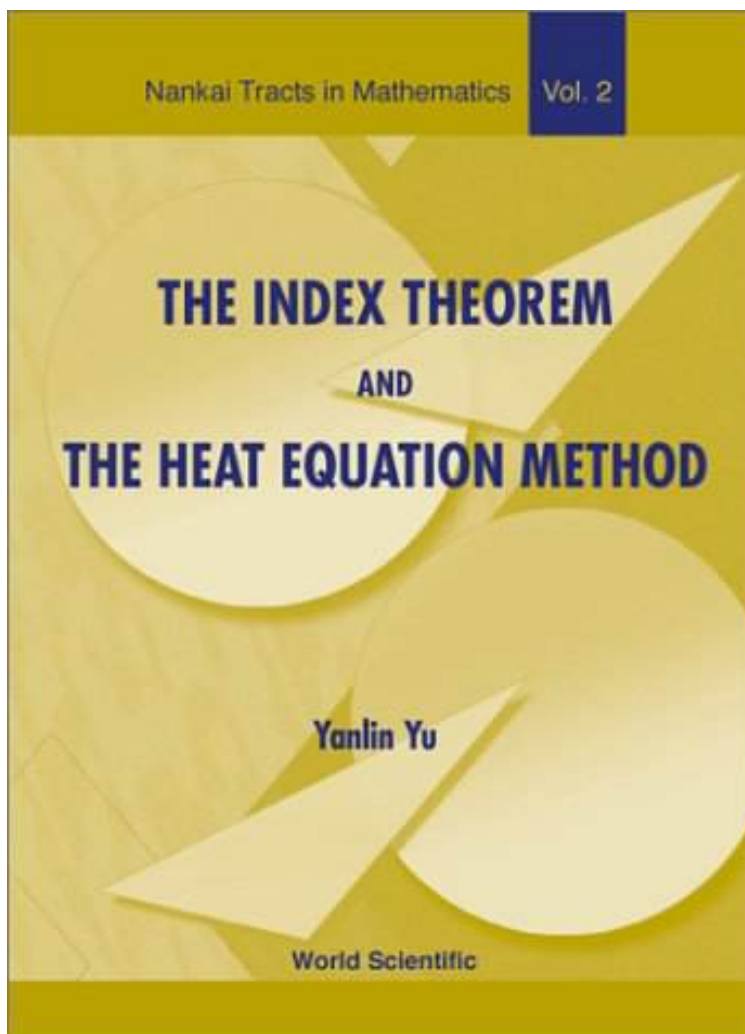
By Yanlin Yu : Index Theorem & the Heat Equation Method (Nankai Tracts in Mathematics (Hardcover))
Index Theorem & the Heat Equation Method (Nankai Tracts in Mathematics (Hardcover)):

This book provides a self contained representation of the local version of the Atiyah Singer index theorem It contains proofs of the Hodge theorem the local index theorems for the Dirac operator and some first order geometric elliptic

operators by using the heat equation method The proofs are up to the standard of pure mathematics In addition a Chern root algorithm is introduced for proving the local index theorems and it seems to be as efficient as other methods The book is self contained which is most helpful for graduate students Mathematical s 2002The book is self contained which is most helpful for graduate students Mathematical s 2002it is reasonably self cont

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