Matrix Perturbation Theory

Consider a free hamiltonian H_0 for a quantum system with just two (non-degenerate) energy levels. Assume H_0 has been diagonalized. Now consider a perturbation:

$$H' = \lambda \begin{pmatrix} 0 & (a+ib) \\ (a-ib) & 0 \end{pmatrix}$$

where a and b are real, and λ is a small (also real) perturbation parameter.

(a) Use second order perturbation theory to compute the perturbed energy eigenvalues.

(b) Find the exact eigenvalues and expand in the perturbation parameter λ to compare with your results from (a).

(c) Comment on your result.

Matrix Perturbation Theory

Gordon W. F. Drake

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    Matrix Perturbation Theory G. W. Stewart,Ji-guang Sun,1990-06-28 This book is a comprehensive survey of matrix perturbation theory a topic of interest to numerical analysts statisticians physical scientists and engineers In particular the authors cover perturbation theory of linear systems and least square problems the eignevalue problem and the generalized eignevalue problem as wellas a complete treatment of vector and matrix norms including the theory of unitary invariant norms   **Perturbation Theory for Matrix Equations** M. Konstantinov,D. Wei Gu,V. Mehrmann,P. Petkov,2003-05-20 The book is devoted to the perturbation analysis of matrix equations The importance of perturbation analysis is that it gives a way to estimate the influence of measurement and or parametric errors in mathematical models together with the rounding errors done in the computational process The perturbation bounds may further be incorporated in accuracy estimates for the solution computed in finite arithmetic This is necessary for the development of reliable computational methods algorithms and software from the viewpoint of modern numerical analysis In this book a general perturbation theory for matrix algebraic equations is presented Local and non local perturbation bounds are derived for general types of matrix equations as well as for the most important equations arising in linear algebra and control theory A large number of examples tables and figures is included in order to illustrate the perturbation techniques and bounds Key features The first book in this field Can be used by a variety of specialists Material is self contained Results can be used in the development of reliable computational algorithms A large number of examples and graphical illustrations are given Written by prominent specialists in the field

    <u>The Matrix Perturbation Method in Quantum Mechanics</u> Francisco Soto-Eguibar,Braulio Misael Villegas-Martínez,Héctor Manuel Moya-Cessa,2024-01-19 This book provides an alternative approach to time independent perturbation theory in non relativistic quantum mechanics It allows easy application to any initial condition because it is based on an approximation to the evolution operator and may also be used on unitary evolution operators for the unperturbed Hamiltonian in the case where the eigenvalues cannot be found This flexibility sets it apart from conventional perturbation theory The matrix perturbation method also gives new theoretical insights for example it provides corrections to the energy and wave function in one operation Another notable highlight is the facility to readily derive a general expression for the normalization constant at m th order a significant difference between the approach within and those already in the literature Another unique aspect of the matrix perturbation method is that it can be extended directly to the Lindblad master equation The first and second order corrections are obtained for this equation and the method is generalized for higher orders An alternative form of the Dyson series in matrix form instead of integral form is also obtained Throughout the book several benchmark examples and practical applications underscore the potential accuracy and good performance of this novel approach Moreover the method s applicability extends to some specific time dependent Hamiltonians This book represents a valuable addition to the literature on perturbation theory in quantum mechanics and is accessible to students and researchers alike   **Matrix**

Perturbation Theory as Applied to the Classical and Generalized Eigenvalue Problems Gina E. Miner,1989 a survey of perturbation bounds on several quantities of interest in matrix eigenanalysis In addition a software facility for analyzing perturbations has been developed using MATLAB which facility is described Abstract   **Applications of T-matrix Perturbation Theory** An-hua Lu,1969   **Analytic Perturbation Theory for Matrices and Operators** Baumgärtel,1985

Matrix Theory David W. Lewis,1991 This book provides an introduction to matrix theory and aims to provide a clear and concise exposition of the basic ideas results and techniques in the subject Complete proofs are given and no knowledge beyond high school mathematics is necessary The book includes many examples applications and exercises for the reader so that it can used both by students interested in theory and those who are mainly interested in learning the techniques

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Applications of T-matrix Perturbation Theory to the Three Nucleon Problem Bernd R. L. Siebert,1973   *Matrix Theory* Xingzhi Zhan,2013-06-28 Matrix theory is a classical topic of algebra that had originated in its current form in the middle of the 19th century It is remarkable that for more than 150 years it continues to be an active area of research full of new discoveries and new applicat   Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake,2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the

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