Asymptotic iteration technique and it's applications

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Abstract

In this talk, I have introduced the asymptotic iteration method (AIM) for second order, linear and homogen differential equations and given some examples for eigenvalue problems. I have used AIM for obtaining the criterion for the polynomial solutions for the second order, linear and homogen differential equations. Additionally, I have also shown how to use AIM for first order, linear differential equation systems and perturbation problems in physics.

Key Words: Asymptotic iteration method, Differential equations.

References

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