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*Application of shift to  
acceleration of*

*convergence to  $\lambda_{\max}$  = ?1*

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Advantages Etc. NEWTON  
RAPHSON METHOD: ORDER OF  
CONVERGENCE: 2  
ADVANTAGES: 1. The  
advantage of the method  
is its order of  
convergence is  
quadratic. 2.  
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of the fastest when it  
does converges 3. Linear*

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*convergence near  
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language at Faculty of  
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the study of algorithms  
that use numerical  
approximation (as  
opposed to symbolic  
manipulations) for the  
problems of mathematical  
analysis (as  
distinguished from*

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*discrete mathematics) .  
Numerical analysis  
naturally finds  
application in all  
fields of engineering  
and the physical  
sciences, but in the  
21st century also the  
life sciences, social  
sciences, medicine,  
business and even the  
arts have adopted  
elements of scientific  
computations. The growth  
in computing ...*

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numerical method is a  
complete and definite  
set of procedures for  
the solution of a  
problem, together with  
computable error  
estimates. The study and  
implementation of such  
methods is the province  
of numerical analysis.  
"numerical methods." 5.**

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Chemical Engineering  
Underlying any  
engineering application  
is the use of Numerical  
Methods. Numerical  
Methods is a manner in  
which 'discretization'  
of solutions can be*

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*achieved rather than  
analytical solutions  
(eg. integration,  
differentiation,*

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methods to solve  
practical engineering  
problems. Bridging the  
gap between mathematics  
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(alternatively spelled  
*optimisation*) or  
*mathematical programming*  
is the selection of a  
*best element* (with  
*regard to some*  
*criterion*) from some set  
of available  
alternatives.

*Optimization problems of*  
*sorts arise in all*  
*quantitative disciplines*  
*from computer science*  
*and engineering to*  
*operations research and*  
*economics, and the*  
*development of solution*  
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*that this is somewhat nonstandard. In this chapter we begin with discussion of some basic notations and definitions which will be of importance ...*

.