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# Numerical Analysis: Iterative Methods

*Vatti V.B.K.*

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**Numerical Analysis: Iterative Methods** Vatti V.B.K.

Iterative methods or those methods by which approximations are improved until one receives an accurate value comprise an important learning objective in mathematics. Keeping this in mind, the main objective of this book is to incorporate important iterative methods in a single volume, at an appropriate depth. This will enable students and researchers to apply these iterative techniques to scientific and engineering problems. The text discusses in detail the methods of solving linear systems of equations, nonlinear equations, system of non-linear equations, initial value problems and partial differential equations of all the three types by the use of iterative methods. The text is substantiated with 335 problems including many solved examples and exercises with answers at the end of each chapter.

Salient Features:

• The book comprises five chapters and each of them discusses the method of employing the conventional and new iterative techniques to the problems of interest in a simple and elegant manner.

• Illustrative examples and exercises at the end of each chapter with answers are included throughout the book to facilitate an easier understanding of the subject.

• Numerical computations featured in this book further offer special interest to engineers, researchers and computational scientists.

• The major results of the book are expected to find applications in many areas of engineering, science and technology.

• The topics covered in the book are explicit in nature, student friendly and self-explanatory.

This book incorporates the material covered in the courses of undergraduate and postgraduate programs in engineering, science and technology and will be of great help to scientists, engineers, researchers and students. It can be used both as a text and a good reference book for those who run after numerical evaluations.

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