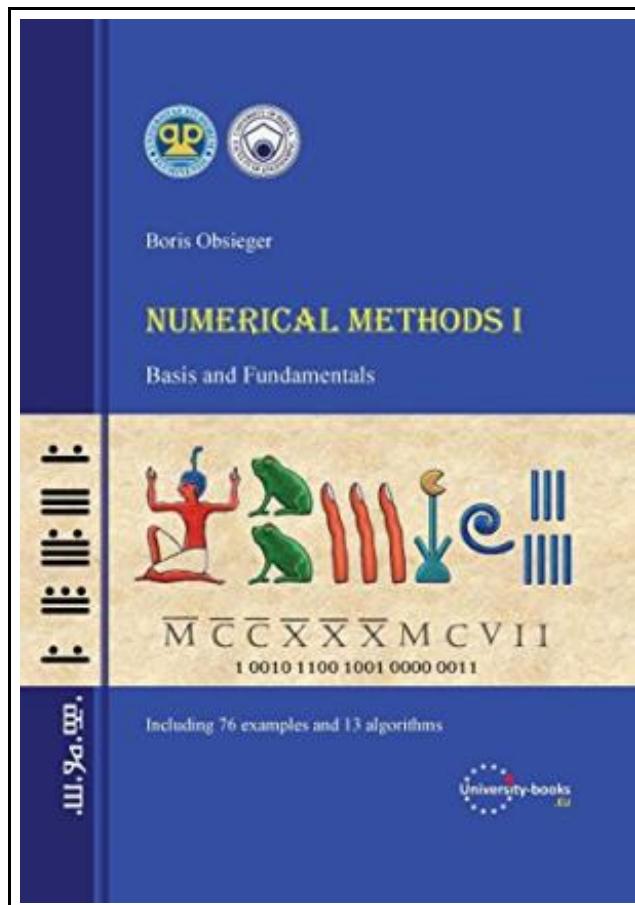


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Boris Olsieger, United States, 2013. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.An excellent textbook recommended by universities in several countries. Primarily written for students at technical universities, it is also very useful handbook for engineers, PhD students and scientists. The book introduces the reader into numeral systems, numbers in computers, types of variables and errors. Error analyses and error estimation are accomplished by various types of regression analyses that are usually used in an experimental work by engineers and scientists. It introduces the reader into numeral systems, numbers in computers, types of variables, types of errors and methods for finding roots of polynomials. Error analyses and error estimation are supplemented by various types of regression analyses that are usually used in an experimental work by engineers and scientists. Why are the presented topics so important? Simply, they are common to all numerical methods. Possibly, the most important parts are the descriptions of differences between constant (non-random) and random variables, related types of errors and error propagations. Engineers and scientists sometimes ignore the difference between variables of different types, roughly interpreting all variables in their computations as constant variables. The consequence of such an approach is a wrong interpretation and estimation of the computation error. By understanding the sources and types of errors, they can be controlled and possibly reduced. That is of crucial importance in almost all sophisticated applications. The book is divided into seven chapters. In the first chapter, the historical background and basic properties of various numeral systems, as well as conversion of numbers from one system to another are briefly explained. In the second chapter, numbers in digital computers, namely integers and floating point numbers are described. This helps the reader to choose precision and...

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