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comprehensive overview
of the core subjects
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for engineering studies
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countries and identifies
differences between two
strong traditions of
teaching mathematics to
engineers. The collective
work of experts from a
dozen universities
critically examines

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various aspects of higher mathematical education. The two EU Tempus-IV projects – MetaMath and MathGeAr – investigate the current methodologies of mathematics education for technical and engineering disciplines. The projects aim to improve the existing mathematics curricula

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in Russian, Georgian
and Armenian
universities by
introducing modern
technology-enhanced
learning (TEL) methods
and tools, as well as by
shifting the focus of
engineering
mathematics education
from a purely
theoretical tradition to a
more applied paradigm.

MetaMath and

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MathGeAr have brought together mathematics educators, TEL specialists and experts in education quality assurance from 21 organizations across six countries. The results of a comprehensive comparative analysis of the entire spectrum of mathematics courses in the EU, Russia, Georgia and Armenia has been

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conducted, have allowed the consortium to pinpoint and introduce several modifications to their curricula while preserving the generally strong state of university mathematics education in these countries. The book presents the methodology, procedure and results of this analysis. This book is a valuable resource for

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teachers, especially those teaching mathematics, and curriculum planners for engineers, as well as for a general audience interested in scientific and technical higher education.

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Understanding of the basic concepts. The systematic approach followed in the book enables readers to develop a logical perspective for solving problems.

Manifolds, the higher-dimensional analogs of smooth curves and surfaces, are fundamental objects in

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rapid mastery of the essential topics. By the end of the book the reader should be able to compute, at least for simple spaces, one of the most basic topological invariants of a manifold, its de Rham cohomology. Along the way, the reader acquires the knowledge and skills necessary for further study of geometry and

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topology. The requisite point-set topology is included in an appendix of twenty pages; other appendices review facts from real analysis and linear algebra. Hints and solutions are provided to many of the exercises and problems. This work may be used as the text for a one-semester graduate or advanced

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undergraduate course,

as well as by students
engaged in self-study.

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Algebraic Topology'.

This book is intended as

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an undergraduate text introducing matrix methods as they relate to engineering problems. It begins with the fundamentals of mathematics of matrices and determinants. Matrix inversion is discussed, with an introduction of the well known reduction methods. Equation sets are viewed as vector

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transformations, and the conditions of their solvability are explored.

Orthogonal matrices are introduced with examples showing application to many problems requiring three dimensional thinking. The angular velocity matrix is shown to emerge from the differentiation of the 3-D orthogonal matrix,

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leading to the discussion of particle and rigid body dynamics. The book continues with the eigenvalue problem and its application to multi-variable vibrations.

Because the eigenvalue problem requires some operations with polynomials, a separate discussion of these is given in an appendix.

The example of the

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vibrating string is given
with a comparison of
the matrix analysis to
the continuous solution.

Table of Contents:

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analyze a broad spectrum of geophysical datasets, with special attention to those methods that generate images of the earth. Data analysis can be a mathematically complex activity, but the treatment in this volume is carefully designed to emphasize those mathematical techniques that readers

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will find the most familiar and to systematically introduce less-familiar ones. Using problems and case studies, along with MATLAB computer code and summaries of methods, the book provides data scientists and engineers in geophysics with the tools necessary to understand and apply mathematical

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techniques and inverse theory. Includes material on probability, including Bayesian influence, probability density function and metropolis algorithm
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