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This book intends to develop a sense of understanding towards Linear Algebra. It will introduce a beginner to the basic fundamentals of linear algebra and their properties. The definitions are explained thoroughly and for better understanding various examples have been put forth for each definition. For the practice of students, some examples and results have been kept in each chapter. Important points deduced from theorems are written as remarks for the benefit of students. This

book is different from other books because of two main reasons. First, the book contains various solved examples which makes the particular topic more understandable. Second, a number of multiple choice questions/objectives with answer keys are kept for each chapter which will help the students to qualify various competitive examinations. The book consists of six chapters. The first chapter gives a brief introduction of matrices wherein various types of matrices with examples are mentioned. Also, the concept of determinants and adjoint of a matrix are explained briefly along with their properties. The second chapter deals with rank of a matrix, elementary transformations and elementary matrices. An important concept Echelon form of a matrix is mentioned and a method is introduced which explains how to determine rank of a matrix of any order. Third chapter deals with the linear dependence and independence of columns of a matrix and the behavior of matrix equation $A X = 0$. A method is explained which tells how rank of a matrix gives information about the solution of Homogenous and Non-homogenous system of linear equations. Fourth chapter welcomes us with the central concept of linear algebra viz; Eigen values and Eigen vectors of a matrix. Many examples are solved which explains how many linearly independent Eigen vectors exist corresponding to an Eigen value and how to find them all. Engineering Mechanics Statics And Dynam Oswaal Books and Learning Private Limited

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In the last thirty years or so, the need to address the challenges of teaching and learning mathematics at university level has become increasingly appreciated by university mathematics teachers, and beyond, by educational institutions around the world. Indeed, mathematics is both a condition and an obstacle to success for students in many educational programmes vital to the 21st century knowledge society, for example in pure and applied mathematics, engineering, natural sciences, technology, economics, finance, management and so on. This breadth of impact of mathematics implies the urgency of developing research in university mathematics education, and of sharing results of this research widely. This book provides a bespoke opportunity for an international audience of researchers in didactics of mathematics, mathematicians and any teacher or researcher with an interest in this area to be informed about state-of-the-art developments and to heed future research agendas. This book emerged from the activities of the research project INDRUM (acronym for International Network for Didactic Research in University Mathematics), which aims to contribute to the development of

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In the last thirty years or so, the need to address the challenges of teaching and learning mathematics at university level has become increasingly appreciated by university mathematics teachers, and beyond, by educational institutions around the world. Indeed, mathematics is both a condition and an obstacle to success for students in many educational programmes vital to the 21st century knowledge society, for example in pure and applied mathematics, engineering, natural sciences, technology, economics, finance, management and so on. This breadth of impact of mathematics implies the urgency of developing research in university mathematics education, and of sharing results of this research widely. This book provides a bespoke opportunity for an international audience of researchers in didactics of mathematics, mathematicians and any teacher or researcher with an interest in this area to be informed about state-of-the-art developments and to heed future research agendas. This book emerged from the activities of the research project INDRUM (acronym for International Network for Didactic Research in University Mathematics), which aims to contribute to the development of

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In the last thirty years or so, the need to address the challenges of teaching and learning mathematics at university level has become increasingly appreciated by university mathematics teachers, and beyond, by educational institutions around the world. Indeed, mathematics is both a condition and an obstacle to success for students in many educational programmes vital to the 21st century knowledge society, for example in pure and applied mathematics, engineering, natural sciences, technology, economics, finance, management and so on. This breadth of impact of mathematics implies the urgency of developing research in university mathematics education, and of sharing results of this research widely. This book provides a bespoke opportunity for an international audience of researchers in didactics of mathematics, mathematicians and any teacher or researcher with an interest in this area to be informed about state-of-the-art developments and to heed future research agendas. This book emerged from the activities of the research project INDRUM (acronym for International Network for Didactic Research in University Mathematics), which aims to contribute to the development of

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research in didactics of mathematics at all levels of tertiary education, with a particular concern for the development of early-career researchers in the field and for dialogue with university mathematicians. The aim of the book is to provide a deep synthesis of the research field as it appears through two INDRUM conferences organised in 2016 and 2018. It is an original contribution which highlights key research perspectives, addresses seminal theoretical and methodological issues and reports substantial results concerning the teaching and learning of mathematics at university level, including the teaching and learning of specific topics in advanced mathematics across a wide range of university programmes.

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