

INTRODUCTION TO MATRICES

CONCEPT OF MATRIX:

The concept of matrices was first presented by Arthur Cayley, an eminent mathematician, in the middle of 19th century, and its use in different scientific disciplines has since been increasing day by day.

MATRICES IN CHEMISTRY:

- 1) Any symmetry operation about a symmetry element in a molecule involves the transformation of a set of coordinates x , y and z of an atom into a set of new coordinates x' , y' and z' .
- 2) The two sets of coordinates of the atom can be related by a set of equations. This set of equations may also be formulated in matrix notation.
- 3) Thus each symmetry operation can be represented by a specific matrix.
- 4) Knowledge of the matrices of various operations in a molecule will be useful to solve structural problems in chemistry.
- 5) For Example: The symmetry of vibrational modes in molecules can be analyzed using the matrices for different operation.

MATRIX:-

A matrix is a rectangular array of numbers or symbol for numbers arranged in rows and columns.

- i. In mathematical terms, Matrices (plural of matrix) are rectangular or, square tables whose elements are written in order in the form of rows and columns.
- ii. Matrices are usually represented by the capital letters of English alphabets i.e. A, B, C, D, E... and their numbers are shown by small letters of English alphabets i.e. a, b, c, d, e...
- iii. Horizontal entries in matrix are called its **Rows**, (denoted by i).
- iv. While vertical entries are called its **columns**, (denoted by j).
- v. Though it is not necessary that a matrix should have equal number of rows and columns, but it is necessary that number of members in different rows or columns should be equal.
- vi. For example: if the numbers in members in the first row of a matrix is 3 then the numbers of elements in all other rows will be 3. Similarly if there are 2 elements in first column of a matrix then all other columns of the same matrix will also have 2 elements.

$$A = \begin{pmatrix} a_i & b_i \\ c_i & d_i \end{pmatrix} \quad B = \begin{pmatrix} a & b \\ c & d \end{pmatrix} \quad C = \begin{pmatrix} 1 & -2 \\ 3 & 4 \end{pmatrix} \quad D = \begin{pmatrix} 5 & 7 \end{pmatrix} \quad E = \begin{pmatrix} x \\ y \end{pmatrix} \quad F = \begin{pmatrix} 0 \end{pmatrix} \quad G = \begin{pmatrix} a \end{pmatrix}$$

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G. Stephenson



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An Introduction to Matrices, Sets and Groups for Science Students G. Stephenson, 2016-01-14 This outstanding text offers undergraduate students of physics chemistry and engineering a concise readable introduction to matrices sets and groups Concentrating mainly on matrix theory the book is virtually self contained requiring a minimum of mathematical knowledge and providing all the background necessary to develop a thorough comprehension of the subject Beginning with a chapter on sets mappings and transformations the treatment advances to considerations of matrix algebra inverse and related matrices and systems of linear algebraic equations Additional topics include eigenvalues and eigenvectors diagonalisation and functions of matrices and group theory Each chapter contains a selection of worked examples and many problems with answers enabling readers to test their understanding and ability to apply concepts *Group Theory and Its Application to Physical Problems* Morton Hamermesh, 1989-01-01 A remarkably intelligible survey well organized well written and very clear throughout Mathematical Reviews This excellent text long considered one of the best written most skillful expositions of group theory and its physical applications is directed primarily to advanced undergraduate and graduate students in physics especially quantum physics No knowledge of group theory is assumed but the reader is expected to be familiar with quantum mechanics And while much of the book concerns theory readers will nevertheless find a large number of physical applications in the fields of crystallography molecular theory and atomic and nuclear physics The first seven chapters of the book are concerned with finite groups focusing on the central role of the symmetric group This section concludes with a chapter dealing with the problem of determining group characters as it discusses Young tableaux Yamanouchi symbols and the method of Hund The remaining five chapters discuss continuous groups particularly Lie groups with the final chapter devoted to the ray representation of Lie groups The author Professor Emeritus of Physics at the University of Minnesota has included a generous selection of problems They are inserted throughout the text at the place where they naturally arise making the book ideal for self study as well as for classroom assignment 77 illustrations A very welcome addition to the literature I would warmly recommend the book to all serious students of Group Theory as applied to Physics Contemporary Physics Index Bibliography Problems Tables The Theory of Groups Hans J. Zassenhaus, 2013-09-16 Well written graduate level text acquaints reader with group theoretic methods and demonstrates their usefulness in mathematics Axioms the calculus of complexes homomorphic mapping p group theory more Many proofs shorter and more transparent than older ones Applied Complex Variables John W. Dettman, 2012-05-07 Fundamentals of analytic function theory plus lucid exposition of 5 important applications potential theory ordinary differential equations Fourier transforms Laplace transforms and asymptotic expansions Includes 66 figures *A Guide to Feynman Diagrams in the Many-Body Problem* Richard D. Mattuck, 2012-08-21 Superb introduction for nonspecialists covers Feynman diagrams quasi particles Fermi systems at finite temperature superconductivity vacuum amplitude Dyson's equation ladder approximation and more A

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