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analysis a branch of mathematics that deals with quantities that have both magnitude and direction some physical and geometric quantities called scalars can be fully defined by specifying their magnitude in suitable units of measure thus mass can be expressed in grams temperature in a vector is a quantity that has both direction and magnitude let a vector be denoted by the symbol $\vec{a}$ the magnitude of $\vec{a}$ is $|\vec{a}|$ we can represent vectors as geometric objects using arrows vector calculus or vector analysis is a branch of mathematics concerned with the differentiation and integration of vector fields primarily in three dimensional euclidean space the term vector calculus is sometimes used as a synonym for the broader subject of multivariable calculus which spans vector calculus as well as partial differentiation two vectors are equal if and only if corresponding components are equal a vector of norm 1 is called a unit vector the coordinate vectors are examples of unit vectors the zero vector $\vec{0}$ is the only vector with magnitude 0 basic operations on vectors the vectors at the tail of a and goes to the tip of b is defined to be there is an equivalent construction for the law of vector and b can be drawn with their tails at the same point the two vectors form the sides of a parallelogram the diagonal of the parallelogram corresponds vector analysis or vector calculus is the mathematical field dedicated to studying the methods of calculus such as differentiation and integration applied to vector fields in modern mathematics vector analysis is often taken to be sub field of differential geometry about this book classical vector analysis deals with vector fields the gradient divergence and curl operators line surface and volume integrals and the integral theorems of gauss stokes and green modern vector analysis distills these into the cartan calculus and a general form of stokes theorem arthur david s introduction to vector analysis revised 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