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Mathematical geophysics is concerned with developing mathematical methods for use in geophysics. As such, it has application in many fields in geophysics, particularly geodynamics and seismology . Contents

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cal geometry are ubiquitous in geophysics and space physics, as are the theorems of Gauss, Green, and Stokes. Accordingly, we will derive some of the essential vector analysis results in Cartesian geometry in these curvilinear coordinate systems. We will proceed to explore how vectors transform in space and the role

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