

PROMINENCE OF RELIEF AND DISSECTION STUDIES IN GEOMORPHOMETRIC CHARACTERISATION OF DRAINAGE BASINS

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ABSTRACT

Geomorphometry is an interdisciplinary field that has evolved from mathematics, the earth sciences, and most recently computer science. This branch of science, which is concerned with the quantitative land surface analysis, is an important component of geomorphological research. The present article makes an earnest attempt to identify the significance of quantitative appraisal of two geomorphometric parameters; relative relief and dissection index in unveiling the terrain morphometry of a river basin in South Western Ghats. The study has been carried out by integrating mathematics and computer applications in land surface analysis. It has been concluded that the parameters taken for the work proves to be the best indicators of regional dissection as well as that of vertical erosion of the land surface.

KEYWORDS: *Geomorphometry, Relative Relief, Dissection Index, Terrain, River Basin*

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