The present work is the result of author's research work on the application of techniques of quantitative analysis to decipher the evolution of drainage and landforms of the North Koel basin. The present volume discusses the morphology of the basin as influenced by the lithostratigraphy and tectonics of the region. The North Koel basin is situated in the northwestern part of Chotanagpur plateau. The geology and geomorphology of the basin is complex.

The chapters relate primarily to modern techniques of analysis of fluvial landforms. Chapter-I gives an introduction about the area which also discusses the previous work done in this area. Chapter-II discusses the lithology, structure and tectonics of the area along with the geological history. This chapter is the foundation on which the landforms have been formed. Chapter-III & IV depict the modern techniques of quantitative analysis of the fluvially eroded surface. Chapter-III deals with the linear and areal properties of the basin. Chapter-IV discusses the relief properties of the basin. Chapter-V deals with the drainage patterns and the evolution of the drainage basin as revealed by quantitative and field observations. Chapter-VI discusses in details the morphological characteristics of the North Koel basin. Chapter-VII represents the conclusion and major findings. The quantitative analysis supplemented by field study proves to be a good method for the analysis of morphology of the multicyclic region.