Abstract

The present work covers a systematic study on reliability issues in bituminous pavement design as per Mechanistic-Empirical approach. The study addresses two distinct aspects: (i) estimation of design reliability for a given pavement section and (ii) design of a pavement section for a given level of reliability. Practical variability of the input design parameters are considered and results are obtained through simulation studies and analytical formulation. Further, the sensitivity of the input design parameters on the reliability of a pavement section is studied in the course of the work.