Abstract

Sensitivity analysis is a study of how changes in the inputs to a model influence the results of the model. Engineers often perform sensitivity analysis to explore how changes in the inputs of a physical process or a model affect the outputs. Many techniques are available for use when the model is probabilistic. In this paper we consider a related problem of sensitivity analysis when the model includes uncertain variable that can involve both aleatory and epistemic uncertainty. In this study, we have used Probability Box (P-box) method to estimate the radiological risk of the radionuclide OBT due to ingestion.

References


Index Terms

Computer Science

Keywords

Probability Bound Analysis  Risk Assessment  Sensitivity Analysis  uncertainty