Future Scope

This work delves upon optimal design of life testing models under fully and partially accelerated environmental conditions using various loadings of relevance in reliability theory. The stress loadings used are constant-stress, step-stress, ramp-stress, modified step-stress, and modified constant-stress. The models developed are for non-repairable systems. Optimum models under accelerated conditions can be developed for repairable systems also using these stress loadings.

Further, the models developed can be extended to incorporate more than one stress variable, for example, temperature and voltage with different censoring schemes, namely, time-censored, failure-censored, progressively censored.

There is also a scope for formulating optimal ALT plan oriented by the replacement schedules.