CHAPTER - 8
Scope for Future Work

This investigation has thrown light into the improvement of quality and productivity of grounded components with optimizing the process parameters by integrating Limit Design Concept with Expert Systems. Further this study shows that the possibility of improving the hardness of the components and generating compressive residual stress at the surface and beneath the surface in cylindrical grinding process.

This optimization study can be implemented to various machining processes to achieve maximum productivity and required quality. Further, the in-process energy utilization approach for strengthening can be attempted to any material/component of any shape, size, and any configuration by varying the grinding wheels/cutting tools and process variables in various machining/grinding processes to achieve maximum fatigue strength on the machined components.

Considerable work can be done in this area to attain a unique /optimal solution to achieve a better surface integrity with higher productivity.