

CHAPTER V

CONCLUSION AND RECOMENDATION

1. CONCLUSION

In this Study, Fatigue behaviour of welded FSS JFE429EX were observed and following conclusion are obtained :

1. Fatigue limit is increasing compare to without welding condition.
2. Increasing of fatigue limit is caused by compressive residual stresses that is existed at the surface of the specimen.
3. Microstructure is not affected directly to the increasing of fatigue limit and it does not affect in decreasing fatigue limit.

2. RECOMENDATION

This research should be improved to indetify fatigue behaviour of welded Ferritic Stainless Steel by doing rotating bending fatigue testing. By doing rotating bending fatigue testing, it will ensure the behaviour of material fatigue after experienced welding process.

