

CHAPTER IV

Conclusion

The fractal dimension techniques can be used to characterize the surface morphology of corrosion material. In this study, we have investigated the morphologies of corroded carbon steel surfaces using image analysis process and fractal methods. The result found that the surface roughness of carbon steel was increased with increasing exposed time in distilled water. Also the variation of average fractal dimension as a function of surface corrosion progresses found that the fractal dimension of carbon steel corrosion increased with expose time.

Futures work

- The fractal analysis can used to investigate corrosion monitoring system inspection in water or pipelines.
- Or to study the chemical resistant protective in coatings system in order to control the corrosion problems.