CONCLUSIONS

- The primary contribution of this paper is to work out a feasible and practical CBM strategy for traction motor insulations based on their grounding characteristics. Through periodic inspections, an operating mechanism comprime two failure nodes and three operating states is proposed, which can make the best use of actor. Vife information and inspection information. Moreover, it can overcome the arawbacks of excessive and insufficient maintenance of traditional time-based man enance scheme.
- Another main contribution is to the extreme stack effect into account in the maintenance model. Traction motor inscrept is afferent from normal deteriorating systems because of suffering random extreme shocks following a Kasson locess are integrated into the maintenance model, which ultimately increases the accuracy of the maintenance model.
- Numerical investigation lidate that by taking shock effect into account, insulations can operate at a lower risk catastrophic breakdown and the operating cost is reduced considerably.