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Analysis of Corrosion Resistance of Steam Turbine Blades

N. Seenaiiah

Abstract :The operating life of a steam turbine largely depends on the mechanical and chemical properties materials used for turbine blades. Extensive literature was reported by researchers on the corrosion resistance properties of steam turbine blades for increased life. Various techniques such as proper selection of material for blades, maintaining good quality of steam, use of water free from dissolved gasses for generation of steam etc, are some of the issues to be addressed for long life of steam turbine blades. An attempt is made in the present work ,to make an extensive review of the research work carried out in the area of corrosion failure of steam turbine blades. The various issues and challenges are identified and the techniques used, to address the issues are reviewed. The major contribution of the present work is that, the review results will help in identifying suitable techniques to improve the life of the steam turbine blades and paves way for ample scope ,for future research in addressing the related issues and challenges.