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Design of Disc Brakes – Issues and Challenges

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Abstract : Over the past few decades, extensive research was carried out on the performance of disc brakes (DB) in the areas of vibration control, vehicle user control, smooth application of brakes, reliability of the braking system and thermal aspects. The above study involved both theoretical and experimental approaches. Various solutions were arrived at, to address the issues and challenges involved in above areas. This paper aims at, making a brief review of the historical development of brakes, issues and challenges involved there in, and summarise the results obtained, out of the present work along with various conclusions. The major contribution of the present work lies, in presenting a review of recent research work conducted in above areas and to draw various conclusions drawn therein.