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| **ROTATING BRIDGE IN RAILWAY STATIONS** | |
| **ABSTRACT:** | |
| Railways is one of the largest carriers of passenger traffic in India. A big issue while boarding any train of Indian Railways is the lack of proper information regarding the platform of arrival in advance. This can only be known a few minutes before arrival of the train and that too at railway station only. The crowd management during the peak hours is a difficult task for the railway authorities for trouble free access to the platforms and trains. In case of multiple platforms, boarding the train at right time would get even worse. | |
| **DESCRIPTION:** | |
| The main constraints involved in the present design are the height and width of the mechanism. As the distance between two successive tracks more specifically the distance between two train sides when two trains are present on both the tracks form the major constraints which manipulates the complete design. According to the railway station dimensions and design approximations we obtain a usable gap of 2.7 m between both the trains excluding the safety clearance between the swing bridge mechanism and the trains. The second constraint involved is the height constraint which involves the high voltage power lines which run parallel to the tracks at a height of 5.8 m from the track level. The height is secondary or can be considered  as a minor constraint as the height of 5.8 m provides ample space height-wise to design a robust mechanism. | |
| **CONCLUSION:** | |
| In the present study, the different problems were identified which affect different classes of people while moving from platform to another. To improve the crowd management at peak times and to increase comfort for all classes of people who are old, disabled and with heavier luggage. This concept provides a perfect solution for major problems of using the foot-over bridge by different people. The present idea can be further developed to optimize the facilities and comfort of the passengers. The idea of employing a platform level retractable bridge has a lot of future prospectuses of Indian Railways. | |
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