

## A Study on the Causes of Train Accidents & Analysis of Train Derailment

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**Abstract** Train accidents can be huge influences to operate many kinds of rolling stocks in railroad industry, and in case of train accidents there are usually many casualties and a lot of damages to railroad facilities (tracks, catenary, rolling stocks, and related materials).

Train accidents can be categorized by train collision, train derailment, and train fires. Train derailment is the most common train accidents, and it is usually caused by the interaction between railroad tracks and rolling stock in train operation.

This study reviews the causes of train derailment accidents, and find out the types of train derailment by analyzing many kinds of train accidents. And this study analyzes the methods of derailment accident evaluation by using derailment coefficient, the decreasing ratio of wheel load, and the ratio of wheel loads.

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