

## **ABSTRACT**

### **TRAFFIC CONFLICT ANALYSIS OF UNSIGNALLED INTERSECTION FOUR USING THE TCT (TRAFFIC CONFLICT TECHNIQUE) METHOD** (Case Study of Intersection Four (Intersection) Duren, Ciputat, South Tangerang City)

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Along with the growth in the number of motor vehicles in Indonesia every year, which has a direct impact on increasing traffic volume and the risk of conflicts that have the potential to cause accidents, especially at the Four Duren Interchange (Duren Intersection) which is not equipped with Traffic Signaling Devices (APILL). This study aims to determine the number of conflicts and measure the level of seriousness of conflicts at the intersection of four signals based on the Traffic Conflict Technique (TCT) method by analyzing the occurrence of near miss accidents through the Conflicting Speed and Time to Accident approaches. Conflict analysis was carried out through video observations that had been collected during three days of observation, namely on Tuesday and Thursday as working days, Saturday as holidays. Observations are carried out during off peak hours, namely at 10.00-12.00 WIB and 13.00-15.00 WIB.

Based on the results of the study, it shows that the number of conflicts that occurred at the Four Duren Intersections was found to be two types of conflicts, namely crossing and merging with the most dominant number of conflicts, namely crossing conflicts, with a percentage of 85.71% with a total of 455 conflicts. All conflicts that occurred showed that 316 (69.45%) conflicts were classified as serious conflicts and 139 (30.55%) were classified as non-serious conflicts.

**Kata kunci:** Traffic Conflict Technique, Unsignalized Intersection, Serious Conflict, Non-Serious Conflict

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