

PROPOSALS FOR A MINIMAL REGULATORY LEVEL IN THE FIELD OF TRAFFIC ACCIDENT INVESTIGATION

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Abstract

Nowadays in the accident reconstruction work can be observed the tendency to use the facilities offered by the dedicated software, which requires a minimal data base providing from technical vehicle characteristics. This approach requires a careful accident scene investigation. If “reconstruction by hand” has to be used, in the case of car - to - car collision, two basically methods are used:

- Conservation of Linear Momentum (COLM) and,
- collision speed versus the magnitude of the resulting crush in “Frontal Fixed Barrier (FFB) collisions.

Only police is present on scene and they take pictures and measure skid marks, highlight rest positions, collect personal data and witness testimonies, etc. Skid mark lengths, car rest positions, obstacle locations, crush damage and other parameters are useful for reconstruction. In many cases, for the expert investigation, the skid marks at the scene may have long since vanished, or significant scene changers may have occurred. These remarks underline the importance of the photographs of the accident scene.

Accident reconstruction rests a field of practice that requires specialized study, training and experience.

Keywords

Accident reconstruction, modeling, backward simulation, forward simulation