

STATE-OF-THE-ART OF TRAFFIC SPEED DEFLECTOMETER (TSD)

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ABSTRACT

Huge savings in pavement maintenance budgets can be achieved through high-resolution and detailed pavement structural condition data. Rolling Wheel Deflectometer (RWD) and Traffic Speed Deflectometer (TSD) introduce the possibility of continuous strength assessment throughout the investigated network at traffic speed. In this case no traffic interference occurs. This paper reviews TSD principle and capability, technical details, repeatability and verification from accessible results. Specific attention is given to dynamic pavement response features measured by the TSD.