1. Introduction
   1. Introduce problem of vehicle-bridge interaction
   2. Introduce case study (I76)
2. Broader impact
   1. Design criteria are not easily confirmed with bridge response measurements
   2. Need for better understanding of performance and identification of performance metrics
   3. Role of technology and sensing in both understanding and judging performance
3. Literature Review
4. Understanding vehicle-bridge interaction and dynamic amplification
   1. Case study of problematic bridge
   2. Understanding the nature of vehicle bridge interaction
      1. Description of the system and energy exchange
      2. Parameter influence
5. Estimating Dynamic Amplification
   1. Design
      1. Acceptable cases
      2. Assumed parameters
      3. Estimation methodology
      4. Vulnerability
      5. Alternative methods
   2. Evaluation
      1. Acceptable Cases
      2. Required information
      3. Estimation methodology
      4. Vulnerability
      5. Alternative methods
6. Other cases of vehicle-bridge interaction
   1. Case study: Rail-splice effect of bridge response and deterioration
   2. Truck-trains: Bridge response and dynamic amplification