

## **I.M.: Threats in Track Superstructure**

Rail transport safety is connected with the ability to recognize and assess emerging threats and the knowledge how to counteract them. The author based on his long scientific and professional experience in the railways area. The monograph consists of the introduction, nine chapters and after words. Notions and methods related to risk are discussed in the publication. The classification and topology of defects in railway superstructure are presented. Examples of defects and damage development as well as levels of existing threats are outlined. Methods of detecting threats in railway superstructure and their assessment are described. Solutions to reduce threats including counteracting against disasters are suggested. Special attention is drawn to the significance and need to carry out research to decrease the emergence of threats. Connections between various kinds of threats in the track superstructure are listed.

The monograph is dedicated to those who deal with problems of transport safety, particularly to track superstructure engineers and technicians as well as academic teachers.

**Keywords:** track superstructure, safety, threats, risk