

Grzegorz Stencel: Monograph „Hazards in the Railroad Structure”

The presented monograph entitled “Hazards in the Railroad Structure” is a translation of the Polish version of the monograph published in 2017 entitled. “Hazards in The Track Superstructure”, the last book in the rich output of Professor Henryk Bałuch. It is a summary of sixty-five-year work related to railways. The publication contains practical knowledge concerning the railway superstructure, and in particular the recognition of hazards. As the author himself admitted, this knowledge also resulted from the experience of many closer and further co-workers, who willingly shared their thoughts on the maintenance of the superstructure. The publication presents concepts and methods concerning risk assessment, classification and typology of defects in the railway superstructure with examples of formation of defects and damage defining the degrees of occurring hazards. The author also described methods of detection of hazards in the railway superstructure and their assessment, suggested ways of mitigation of hazards, including prevention of catastrophic hazards. He stressed the importance and the need to carry out research aimed at decreasing the occurring threats, presenting connections between various types of threats in the superstructure. The monograph is intended for people involved in transport safety issues, in particular railway engineers and technicians and academic teachers.

Keywords: railway superstructure, safety, hazards, risk