



Analysis of Building Damage Caused by the Effects of Natural Hazards

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The aim of this presentation is to identify and typify natural hazards and to describe their negative impacts. The authors will analyse the effects of natural hazards on buildings, with particular emphasis on meteorological events, and will look for solutions to increase the resilience to these effects.

Analysing the topicality with the help of index databases, primarily using data from ScienceDirect and Google Scholar. The identification of natural hazards is based on annual reports of relevant bodies and organisations, international discourse, and the main findings of conferences. Trend analysis is used to assess changes in the number of natural hazards that have occurred.

Safety is a growing societal need, with increasing trends in natural hazards posing significant potential risks in terms of time spent in the built environment and exposure to lifestyle factors. In terms of damage to buildings, it is essential to increase the resilience to specific impacts. The engineering, technical, economic, political and social elements of this need to be continuously analysed and assessed.

This presentation complements meteorological research by providing practical answers to the question of what we are up against, in the knowledge that it is necessary to prepare not only man but also his material assets (buildings) against the increasing impact of natural hazards. In this presentation, the authors will show how.