

Risk Management of Technical Systems

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Abstract

Besides natural accident/disasters, like earthquakes or floods, to which humankind is often inevitably and dramatically exposed, questions on risk and risk management practically arise in all human activities, at different degree and in a more or less objective form. After a short introduction to the concepts of safety, risk, risk acceptance, and risk management, this contribution focuses on risk management related to repairable equipment & systems for which external influences (human or other) are important, with particular attention to new models for risk analysis, and by introducing the concept of mean time to accident /disaster (MTTA). Not considered is risk & risk management in climate, health and financial fields, as well as in relation to project management, security, sociological & ethical aspects; for all these one can refer to [21, 24, 8], as well as [13, 14, 10, 16, 17, 19, 20, 22]. This contribution is an invited paper at CCF-2016, based on [5].

Keywords: Risk, Safety, Security, System, Management, Risk Acceptance, Technical System, CCF 2016

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