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安全规划的方法学综述与研究(PDF)

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Title: Review and study on methodology for safety planning

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摘要: 安全规划是一个复杂动态系统的运行过程,对其方法学进行分析思考有助于探索安全规划方法的统一体系。在国内外有关安全规划研究的基础上,给出了安全规划的定义及一般特点,建立了安全规划的一般程序,包括安全规划的指导思想、基本方针、基本原则、目标及内容等。基于现有的系统工程方法论,探讨了安全规划的方法学及理论基础。最后,综述了现有安全规划的具体方法,包括安全距离法、基于后果法及基于风险法,并对该3种方法进行了比较及评价。可供安全科学与工程学科研究参考。

Abstract: Safety planning is a functioning process of a complex dynamic system. Study on its methodology is helpful to explore the unite system of safety planning methods. Based on the present research of safety planning around the world, this study proposed a definition and general characteristics of safety planning and established the general procedures of safety planning, which include the guiding ideology, basic policy and principles, the targets and contents of safety planning. Based on the existing methodology of system engineering, the basic theories of safety planning were summarized. At last, the detailed methods of safety planning were reviewed, including ' generic' distances, consequence-based approach, and risk-based approach, which were analyzed and compared each other. These give a reference to research on science of safety and engineering.

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