

A Qualitative Approach to Engineering Design Issues, Problems, and Solutions

Authors : M. U. Arshid, M. A. Kamal

Abstract : The engineering design process is the activities formulation, to help an engineer raising a plan with a specified goal and performance. The engineering design process is a multi-stage course of action including the conceptualization, research, feasibility studies, establishment of design parameters, preliminary and finally the detailed design. It is a progression from the abstract to the concrete; starting with probably abstract ideas about need, and thereafter elaborating detailed specifications of the object that would satisfy the needs, identified. Engineering design issues, problems, and solutions are discussed in this paper using qualitative approach from an information structure perspective. The objective is to identify the problems, to analyze them and propose solutions by integrating; innovation, practical experience, time and resource management, communications skills, isolating the problem in coordination with all stakeholders. Consequently, this would be beneficial for the engineering community to improve the Engineering design practices.

Keywords : engineering design, engineering design issues, innovation, public sector projects

Conference Title : ICMEIE 2016 : International Conference on Management, Economics and Industrial Engineering

Conference Location : Berlin, Germany

Conference Dates : May 19-20, 2016