



Heavy Construction of Infrastructure. How to choose the right method?

By Mohamed Darwish

GRIN Verlag Aug 2016, 2016. Taschenbuch. Condition: Neu. Neuware - Document from the year 2016 in the subject Engineering - Civil Engineering, , language: English, abstract: The construction of infrastructures like bridges, tunnels, pipelines, elevated tanks, underground structures, hydraulic structures and caissons involves heavy construction activities. Each type of these structures involves activities categorized as heavy construction activities that involve capital intensiveness, non-conventional equipment and non-typical construction technology. Hence, constructing such infrastructures requires certain level of know-how that may not be easily available within average engineers and contractors. The choice between the different construction methods within projects of such large scale should be performed on solid scientific basis. The selection criteria of different construction methods vary from one type of structures to the other. The current study is the fruit of a series of studies in which the selection criteria for different types of infrastructure were studied. The different types of factors governing the choice of the different construction methods applicable to infrastructure projects involving heavy construction activities have been studied and categorized based on its level of importance when it comes to the choice between different methods. Different cases for existing projects all over the globe are examined as...



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