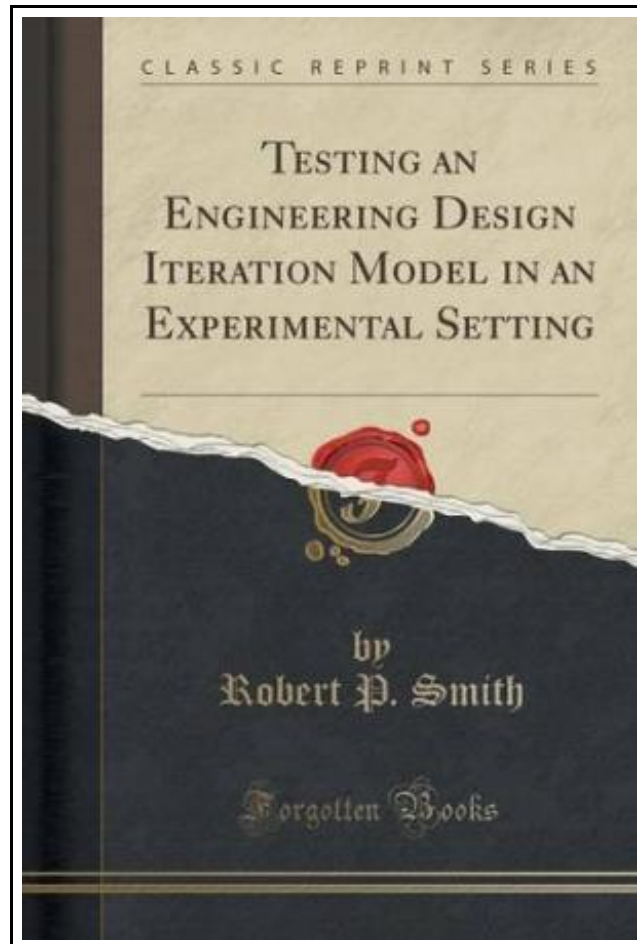


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **Testing an Engineering Design Iteration Model in an Experimental Setting** Abstract In this paper, we compare two alternative design strategies for the Delta Design Game, an engineering design exercise. We first analyze these strategies using the Work Transformation Matrix, a design iteration model which shows that one of the strategies is expected to display a faster solution time. We then demonstrate experimentally the difference in development time by observing eight design teams working on the problem using the two strategies. We found that the decoupling strategy suggested by the model reduced solution time while maintaining quality of the technical solutions. 1. Introduction Design performance is an important factor in determining the success of a manufacturing firm. The amount of time that it takes the firm to develop a product is an important factor in determining the success of the design [Clark and Fujimoto 1991]. Our study of the design process has led to the development of formal mathematical models of the design process which can estimate the amount of time that it takes to design a technical product [Eppinger et al. 1990, Eppinger et al. 1992, Smith and Eppinger 1991a, Smith and Eppinger 1991b]. We have applied one of the models (the Work Transformation Model, described in the next section) to some industrial design environments (Smith and Eppinger 1991b), which have shown reasonable correlation with our model. While we are encouraged by the analytical results of these design iteration models, we have found, however, that actual design environments are difficult to observe directly. One must rely on the retrospective description of the design process from the individuals involved. We have designed the research experiment presented...



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