



Die Grenzboten (44, No. 1)

By Stanley E Woodard Gopichand Koganti

RareBooksClub. Paperback. Book Condition: New. Paperback. 80 pages. OCLC Number: 52400884 Excerpt: . . . 1. Introduction Multidisciplinary optimization provides a means to integrate two or more design disciplines under the same optimization umbrella. The design discourse includes all design parameters concurrently. This allows a means of determining the tradeoffs between design parameters in the constituent design disciplines. Furthermore, the design parameters are varied until they satisfy a particular performance criteria 1-8 . Hence, system level performance objectives and constraints can be achieved. This paper presents a procedure for performing multidisciplinary optimization using the Internet and UNIX commands. The paper illustrates the design procedure on a spacecraft design problem that involves the disciplines of attitude control system design and structural design. Performing multidisciplinary optimization via the Internet has many advantages. Ref. 7 (Messac et al) has demonstrated that multidisciplinary design and optimization has matured beyond the research domain to industrial use. Messac has demonstrated a more general approach to multidisciplinary design by implementing the design with commercial software packages. The goal of this research effort has been to extend multidisciplinary design and optimization such that it is amenable to design and development teams whose members and respective expertise...



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