



## American Statesmen Volume 21

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Original publisher: Hampton, Va. : National Aeronautics and Space Administration, Langley Research Center ; Hanover, MD : Available from NASA Center for AeroSpace Information, 2001 OCLC Number: (OCoLC)54502331 Excerpt: . . . relative change in the objectives between successive cycles. At this stage the human engineers can also review the results and make changes as necessary. Then the complete process is repeated till a satisfactory design is obtained. Uniform Sampling to Generate Samples based on Number of Processors available Concurrent Processing of MDA on NASA Ames Origin 2000 256 processors machine Outer Loop Kriging MetaModel Construction for Response Approximations Inner Loop Multidisciplinary Optimization Update Variables and Perform Convergence Multidisciplinary Analysis ( MDA ) Post processing Figure 2: MDO methodology in a High Performance Computing environment 3. 0 Application Problems and Solutions Two design examples are considered: -Air Borne Laser ( ABL ) Optical Bench MDO for structures, thermal and optical line of sight disciplines ( detailed composites ply layup design ). - Conceptual design of a supersonic business aircraft MDO involving Aerodynamics, Structures and Propulsion disciplines. 11 This item ships from La Vergne,TN. Paperback.



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