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The main finding was that persons with diabetes who enrolled in Medicare HMOs were significantly more likely to report losing weight and using prescription ... of the benefit structure in the ...

A novel method has been developed for calculating gradients of aerodynamic force and moment coefficients for an aeroelastic aircraft model. This method uses the Global Sensitivity Equations (GSE) to account for the aero-structural coupling, and a reduced-order modal analysis approach to condense the coupling bandwidth between the aerodynamic and structural models. Parallel computing is applied to reduce the computational expense of the numerous high fidelity aerodynamic analyses needed for the coupled aero-structural system. Good agreement is obtained between aerodynamic force and moment gradients computed with the GSE/modal analysis approach and the same quantities computed using the brute-force, computationally expensive, finite difference approximations. A comparison between the computational expense of the GSE/modal analysis method and a pure finite difference is presented. These results show that the GSE/modal analysis approach is the more computationally efficient technique if sensitivity analysis is to be performed for two or more aircraft design parameters.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Hybrid Ship Hulls provides an overview of cutting-edge developments in hybrid composite-metal marine ship hulls, covering the critical differences in material processing and structural behavior that must be taken into account to maximise benefits and performance. Supporting the design of effective hybrid hulls through proper consideration of the benefits and challenges inherent to heterogenic structures, the book covers specific details of quality control, manufacturing, mechanical and thermal stress, and other behavioral aspects that need to be treated differently when engineering hybrid ship hulls. With a particular focus on heavy-duty naval applications, the book includes guidance on the selection of composite part configurations, innovative design solutions, novel hybrid joining techniques, and serviceability characterization. Addresses the engineering requirements specific to hybrid structure engineering that are essential for optimization of hybrid hull design and maximization of material benefits. Covers methodology, techniques and data currently unavailable from other sources, providing the essential base knowledge to support robust design, reliable manufacturing, and proper serviceability evaluation. Includes MATLAB codes, enabling engineers to easily apply the methods covered to their own engineering design challenges.

Structures and Architecture – Bridging the Gap and Crossing Borders contains the lectures and papers presented at the Fourth International Conference on Structures and Architecture (ICSA2019) that was held in Lisbon, Portugal, in July 2019. It also contains a multimedia device with the full texts of the lectures presented at the conference, including the 5 keynote lectures, and almost 150 selected contributions. The contributions on creative and scientific aspects in the conception and construction of structures, on advanced technologies and on complex architectural and structural applications represent a fine blend of scientific, technical and practical novelties in both fields. ICSA2019 covered all major aspects of structures and architecture, including: building envelopes/façades; comprehension of complex forms; computer and experimental methods; futuristic structures; concrete and masonry structures; educating architects and structural engineers; emerging technologies; glass structures; innovative architectural and structural design; lightweight and membrane structures; special structures; steel and composite structures; structural design challenges; tall buildings; the borderline between architecture and structural engineering; the history of the relationship between architects and structural engineers; the tectonic of architectural solutions; the use of new materials; timber structures, among others. This set of book and multimedia device is intended for a global readership of researchers and practitioners, including architects, structural and construction engineers, builders and building consultants, constructors, material suppliers and product manufacturers, and other professionals involved in the design and realization of architectural, structural and infrastructural projects.

The volume includes papers from the WSCMO conference in Braunschweig 2017 presenting research of all aspects of the optimal design of structures as well as multidisciplinary design optimization where the involved disciplines deal with the analysis of solids, fluids or other field problems. Also presented are practical applications of optimization methods and the corresponding software development in all branches of technology.