

Integrated Analysis of Thermal/Structural/Optical Systems

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ABSTRACT

Productivity bottlenecks for integrated thermal, structural, and optical design activities were identified and systematically eliminated, making possible automated exchange of design information between different engineering specialties.

The problems with prior approaches are summarized, then the implementation of the corresponding solutions is documented. Although the goal of this project was the automated evaluation of coupled thermal/optical/structural designs, significant process improvements were achieved for subset activities such as stand-alone thermal, thermal/structural, and structural/optical design analysis.

INTRODUCTION: PROBLEM STATEMENT

Structural, thermal, and optical engineers typically work independently of each other using unrelated tools, models, and methods. Without the ability to rapidly exchange design data and predicted performance, and therefore to influence each other's efforts, the prior state-of-the-art for the design of advanced optical systems was inadequate: it has henceforth resisted attempts to achieve the ideals of concurrent engineering. Limited success has been achieved at a very top-level (suitable for conceptual design studies), but only by approximating or neglecting the detailed design tasks that the engineering specialist must perform in later mission phases.

Without the ability to work concurrently, the disciplines of thermal control, structures, and optics levy worst-case performance requirements on each other such that each specialty can contribute to a design independently. The optical engineers dictate distortion limits to the structural engineer, who then dictates limits on temperatures and gradients to the thermal engineer. Requirements are derived, then flowed down. The thermal and structural engineers blindly obey these limits under all operational conditions, thereby satisfying the optical performance requirements.

That approach results in a stack-up of margins and inevitably to over-design, to the point of rendering advanced mis-

sions such as NASA's Next Generation Space Telescope (NGST), with its cryogenic large aperture optics, difficult to achieve without an integrated design approach. For example, temperature gradients in a mirror support structure are inconsequential as long as the required optical performance is achieved, yet derived limits on such gradients often become a design driver for thermal control specialists.

DESIGN PROCESS INTEGRATION

This paper describes the first step, which was to achieve tighter and smarter communication pathways between existing tools such as ORA's CODE V® optical analyzer, the MSC/NASTRAN® structural analyzer, and C&R's SINDA/FLUINT and Thermal Desktop®. Once this was achieved, the ability to externally drive the design towards an optimum was implemented and tested, as described in Reference 1.

Previous innovations by the development team had eliminated many of the stumbling blocks that had stymied earlier attempts to achieve a tight integration between thermal control, structures, and optics. These prior advances include a finite element-compatible and CAD compatible thermal radiation analyzer (Ref 2), thermal tools compatible with structural programs (Ref 3), optimizing thermal/fluid solvers (Ref 4), and integrated structures/optics design.

The theme of "intelligent integration without sacrificing the tools or methods of each specialty" was carried forward into the idea of providing system-level design optimization tools. In other words, the goal of this development was not merely an integrated tool suite, but also one that can automatically explore the design space to find an optimal design that meets required optical performance under all structural load cases and thermal environments.

As will be seen, however, the end product (OptiOpt™, for "optimized opto-mechanical design") does not have to be applied in its entirety in order to achieve significant improvements over prior design practices. Rather, improvements to the underlying thermal and optical codes and the generation of general purpose model conversion and mapping schemes are useful in and of themselves. In

Integrated Analysis Of Thermal Structural Optical Systems

RJ Shavelson



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NASA Technical Memorandum ,1990 **ICO20** Yongtian Wang,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Optomechanical Systems Engineering** Keith J. Kasunic,2015-04-27 Covers the fundamental principles behind optomechanical design This book emphasizes a practical systems level overview of optomechanical engineering showing throughout how the requirements on the optical system flow down to those on the optomechanical design The author begins with an overview of optical engineering including optical fundamentals as well as the fabrication and alignment of optical components such as lenses and mirrors The concepts of optomechanical engineering are then applied to the design of optical systems including the structural design of mechanical and optical components structural dynamics thermal design and kinematic design **Optomechanical Systems Engineering** Reviews the fundamental concepts of optical engineering as they apply to optomechanical design Illustrates the fabrication and alignment requirements typically found in an optical system Examines the elements of structural design from a mechanical optical and vibrational viewpoint Develops the thermal management principles of temperature and distortion control Describes the optomechanical requirements for kinematic and semi kinematic mounts Uses examples and case studies to illustrate the concepts and equations presented in the book Provides supplemental materials on a companion website Focusing on fundamental concepts and first order estimates of optomechanical system performance **Optomechanical Systems Engineering** is accessible to engineers scientists and managers who want to quickly master the principles of optomechanical engineering **Handbook of Optomechanical Engineering** Anees Ahmad,2017-07-11 This comprehensive handbook covers all major aspects of optomechanical engineering from conceptual design to fabrication and integration of complex optical systems The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design development and integration of modern optical systems for commercial space and military applications Charts tables figures and photos augment this already impressive text Fully revised the new edition includes 4 new chapters Plastic optics Optomechanical tolerancing and error budgets Analysis and design of flexures and Optomechanical constraint equations *Annual Index/abstracts of SAE Technical Papers* ,2002 *Technology of Lunar Soft Lander* Deng-Yun Yu,Ze-Zhou Sun,He Zhang,2021-03-25 This book provides systematic descriptions of design methods typical techniques and validation methods for lunar soft landers covering their environmental design system design sub system design assembly testing and ground test validation based on the Chang e 3 mission Offering readers a comprehensive systematic and in depth introduction to the technologies used in China s lunar soft landers it presents detailed information on the design process for Chang e 3 including methods and techniques that will be invaluable in future extraterrestrial soft

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