

Modeling the Effects of Transient High Energy Weapon Subsystems on High-performance Aerospace Systems

Grant Gregory Gvozdoch

Thesis Submitted to the Faculty of
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of

Master of Science
In
Mechanical Engineering

Committee Members:

Dr. Michael R. von Spakovsky, Chair

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Dr. Walter O'Brien

Defense Date: 10/03/2011

Blacksburg, Virginia

Keywords: directed energy weapon, thermal storage, aerospace, solid-state laser

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Author: V. Shanmugasundaram, M. L. Ramalingam, B. Donovan, T. Mahefkey

Volume: AIAA-2006-4025

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Title: Analytical Investigation of Thermal Management Options for An Aircraft Based High Pulsed Power System Application

Author: V. Shanmugasundaram, M. L. Ramalingam, B. Donovan, T. Mahefkey, and B. Hager

Volume: AIAA-2005-5649

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Subject: RE: Permission to reprint figures
Date: October 11, 2011 10:53:42 PM CDT
To: 'Grant Gvozdoch' <gvozdoch@vt.edu>
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Hello Greg,

Sure thing! Here is the article in color. I am also attaching another article explaining the model in detail.

Cheers,

John

John Vetrovec

Aqwest LLC

303-681-0456 office
303-406-8545 cell
jvetrovec@aqwest.com
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Title: Solid-state high-energy laser
Author: John Vetrovec
Volume: 4632
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Volume: 4632
Page Numbers: 104 - 114
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