Optical Thermal Response Of Laser Irradiated Tissue

Thermal Response of Downhill SkisThermal Response of the Part 572 Dummy to Step Change in Ambient Temperature. Technical Report (final).Damage and Thermal Response of Materials to Pulsed Thermonuclear IrradiationAssessment of Thermal Response of Subjects Wearing Functionally Designed Protective ClothingOptical- Response of Laser-Irradiated TissueConstitutive Modeling of the Thermal Response of Rubber-like MaterialsThe Thermal Response of Superficial Tissues to LoadHeating and Cooling with Ground-Source Heat Pumps in Cold and Moderate ClimatesDiagnostic Tests Determining the Thermal Response of a HouseThermal Response of a Heat Sensitive Line DetectorThermal Response of Heated StreamsThe Analytical Determination of the Thermal Response of a Typical Aircraft Structure Subjected to Transient External Heating and CoolingResponse of Highway Bridges to Nonlinear Temperature DistributionsPrediction of the Thermal Environment and Thermal Response of Simple Panels Exposed to Radiant HeatBio-thermal Responses to Varied Work Programs in Men Kept Thermally Neutral by Water Cooled ClothingOne-dimensional Numerical Analysis of the Transient Thermal Response of Multilayer Insulative SystemsPrediction of the Thermal Environment and Thermal Response of Simple Panels Exposed to Radiant HeatThermal Response of BuildingsPrediction of the Thermal Response of Buildings Using Computer TechniquesThe Basic Thermal Response of Buildings Guy C. Warren Mark P. Haffner Jenq-Horng Liang Donna Hahn Branson Ashley J. Welch Yuhui Wang Susan Laurie Frampton Vasile Minea R. W. Pickard P. P. Paily Thomas N. Bernstein Izak Cornelius Potgieter Paul Webb Claud M. Pittman National Aeronautics and Space Administration (NASA) P. Butler Stephen Vaughn Stoltz

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Thermal Response of Buildings Prediction of the Thermal Response of Buildings Using Computer Techniques The Basic Thermal Response of Buildings *Guy C. Warren Mark P. Haffner Jenq-Horng Liang Donna Hahn Branson Ashley J. Welch Yuhui Wang Susan Laurie Frampton Vasile Minea R. W. Pickard P. P. Paily Thomas N. Bernstein Izak Cornelius Potgieter Paul Webb Claud M. Pittman National Aeronautics and Space Administration (NASA) P. Butler Stephen Vaughn Stoltz*

in this text scientists provide a detailed description of the physical events that occur when light interacts with tissue their work emphasizes the optical response of tissue during treatment procedures or diagnostic applications of laser light supported by numerous illustrations chapters present methods for estimating tissue optical properties from measurements of reflection and transmission in addition to methods for measuring temperature thermal properties and rate constants a discussion on the applications of optical and thermal tissue interactions to various medical problems is included

heating and cooling with ground source heat pumps in cold and moderate climates fundamentals and basic concepts covers fundamentals and design principles of vertical and horizontal indirect and direct expansion closed loop as well as ground and surface water ground source heat pump systems it explains the thermodynamic aspects of mechanical and thermochemical compression cycles of geothermal heat pumps and describes the energetic economic and environmental aspects associated with the use of ground source heat pump systems for heating and cooling residential and commercial institutional buildings in moderate and cold climates based on the author s more than 30 years of technical experience focuses on ground source heat pump technologies that can be successfully applied in moderate and cold climates discusses technical aspects as well as the most common and uncommon application fields of basic system configurations this work is aimed at designers of hvac systems as well as geological mechanical and chemical engineers implementing environmentally friendly heating and cooling technologies for buildings

two different approaches to the determination of the thermal response of buildings are possible deterministic models and methods based on equivalent thermal parameters etp s of a building while the former are computer applications of heat transfer theory the latter consist of data oriented techniques that infer the etp s of a particular building by multiple correlation of indoor temperature and weather the etp method is convenient to provide a rank ordering of different houses by their thermal performance and to assess the overall effects of retrofits on a house like deterministic methods the etp method can also predict accurate free floating indoor temperatures and heating loads as a function of weather a convenient set of etp s is established for a residential townhouse by means of a simple single thermal mass model multiple step regressions of actual data on indoor temperature and weather yield estimates for the etp s the model tracks the measured data well the regressed etp s agree with what is expected from theoretical calculations and are consistent with the result from a different constant indoor temperature experiment

the thermal analysis is presented of a portion of the external surface thermal protection system and load bearing structure of a hypersonic vehicle whose mission consists of a climb out to 100 000 feet cruise at mach 6 descent and a final phase termed turn around which includes landing rollout refueling and maintenance temperature dependent thermo physical properties are utilized and compared to results obtained for constant thermo physical properties

the effects of nonlinear temperature distributions resulting from solar radiation on highway bridge decks are investigated a finite difference heat flow model was developed and used to determine the distributions of temperatures to be expected in various highway bridge structures and the general validity of the model was established by means of comparisons between measured and predicted temperature distributions in the kishwaukee river bridge a large box girder structure weather data from 26 stations in the united states were studied in order to determine the limiting values of probable temperature differences over the depths of girders in different geographical regions the bending moments induced in various continuous bridges were studied with the aim of isolating the most critical cases recommendations about design are made as are recommendations for additional study of some factors relating to the design process

a method of predicting the radiant heat flux distribution produced by a bank of tubular quartz heaters was applied to a radiant system consisting of a single unreflected lamp irradiating a flat metallic incident surface in this manner the method was experimentally verified for various radiant system parameter settings and used as a source of input for a finite element thermal analysis two finite element thermal analyses were applied to a thermal system consisting of a thin metallic panel exposed to radiant surface heating a two dimensional steady state finite element thermal analysis algorithm based on galerkin s method of weighted residuals gfe was formulated specifically for this problem and was used in comparison to the thermal analyzers of the engineering analysis language eal both analyses allow conduction convection and radiation boundary conditions differences in the respective finite element formulation are discussed in terms of their accuracy and resulting comparison discrepancies the thermal analyses are shown to perform well for the comparisons presented here with some important precautions about the various boundary condition models a description of the experiment corresponding analytical modeling and resulting comparisons are presented turner travis l and ash robert l langley research center

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