

**Prediction Of The Ullage Gas Thermal Stratification In A
NASP Vehicle Propellant Tank Experimental Simulation
Using FLOW-3D (SuDoc NAS 1.15:103217)**

By Terry L. Hardy

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Simulation and optimization of stored gas pressurizing system into account the prediction of pressure change in propellant vessels' ullage and propellant

http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=5158199&filter%3DAND%28p_IS_Number%3A5158174%29

Paper 33. Paper 33. Ratings: (0) practices with actual test data and current model predictions. Low velocity venting of ullage gas from a crude oil tanker.

<https://www.scribd.com/doc/269938844/Paper-33>

Han Nguyen, Foreign Trade University, performance prediction computer throughout the length of the tank thereby destratifying both the ullage gas and liquid

<http://ftu.academia.edu/HanNguyen/Papers>

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Compare the API recommended practices with actual test data and current model predictions for relief valves and Low velocity venting of ullage gas from a crude

<http://www.questconsult.com/papers/relief-valves-vents/>

PREDICTION OF SLOSHING LOADS IN LNG SHIPS. Accession Number: 00684221. Record Type: Monograph. Abstract: Froude-scaled ullage pressures, and pure-vapour ullage gas.

<http://trid.trb.org/view.aspx?id=416355>

The resulting crude helium gas is purified by successive exposures where helium is used as an ullage medium to displace fuel and oxidizers in storage tanks and to

http://en.wikipedia.org/wiki/Helium_gas

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<http://www.flow3d.com/home/resources/bibliography/aerospace-bibliography/prediction-of-the-ullage-gas-thermal-stratification-in-a-nasp-vehicle-propellant-tank-experimental-simulation-using-flow-3d>

to the present day On Board Inert Gas Generating System ullage oxygen concentration and Though accurate predictions of failure rate are generally

http://www.academia.edu/1423901/Safety_Assessment_of_an_On_Board_Inert_Gas_Generating_System

the volume of the tank was equal to the sum of ullage gas, This significantly simplifies both the prediction of trajectory in the target site selection and

<http://www.google.com/patents/US5064151>

Flame-Spreading Processes in a Small-Caliber Gun 5c. the formation of gas and intergranular XKTC prediction of interior ballistic parameters for a

<http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA469771>

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<http://ntrs.nasa.gov/search.jsp?R=19900016844>

the ullage gas is composed primarily of oxygen, This prediction is fairly close to the measured bum rates for the two oxidizers with various fuel systems.

<http://www.google.com/patents/US20090031700>

Model for Ullage Flammability, Ignition and Explosion BlazeTank by N. Albert Moussa and Venkat Devarakonda BlazeTech 24, Thronthike St, Cambridge, MA 02141

http://www.fire.tc.faa.gov/2004Conference/files/fuel/N.A.Moussa_Blaze_tank_model.ppt

Motivation Combustible mixtures can be generated in the ullage of aircraft fuel tanks
Current effort in minimizing explosion hazard Present objective of the present
<http://slideplayer.com/slide/2573267/>

such as heat transfer between ullage gas, OF PROPULSION TEST ARTICLE HELIUM
PRESSURIZATION Prediction of Pressurant Mass
<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.546.4702>

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<http://www.amazon.com/Prediction-stratification-propellant-experimental-simulation/dp/B0001089AM>

Sprayers, Thermodynamics, Ullage, Venting Venting System (TVS) performance
prediction thereby destratifying both the ullage gas and
<http://adsabs.harvard.edu/abs/1994STIN...9510870N>

Prediction of the Ullage Gas Thermal Stratification in a HASP Vehicle Propellant Tank
Experimental Simulation Using FLOW-3D 7. Author(s)
<http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19900016844.pdf>

the vapor emission that occur during transit by keeping the ullage gas cool (heat
exchanger Predictions of liquid inert gas systems that
<http://www.mhscorp.com/>

In order to select an effective approach to predict the pressurization characteristics of
cryogenic tank For the ullage gas, Prediction of the ullage gas
<http://www.sciencedirect.com/science/article/pii/S0011227514002112>

Analysis of a sample of ullage gas at the end of the test showed only a This implies that
when predictions are made regarding the rate of pressure rise in
<http://www.sciencedirect.com/science/article/pii/0304389480800215>

Empirical Data for Cryogenic Propellant Tanks Collapse Factor is a parameter used to
quantify the pressurant and ullage gas collapse. Accurate prediction
<http://arc.aiaa.org/doi/pdf/10.2514/6.2010-6559>

Vaporization of JP-8 Jet Fuel in a Simulated Aircraft Fuel Tank Under Varying in its
predictions of ullage gas temperature and ullage gas vapor concentration ;
http://www.powershow.com/view1/2287ef-ZDc1Z/Vaporization_of_JP-8_Jet_Fuel_in_a_Simulated_Aircraft_Fuel_Tank_Under_Varying_Ambient_Conditions_powerpoint_ppt_presentation

Modeling the Prediction of Helium Mass Requirement for Propellant Tank Pressurization
the ullage is lled with gas

<http://arc.aiaa.org/doi/pdf/10.2514/1.A32073>