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MAX ERICSSON

Master thesis project in

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Stockholm, Sweden

2012 . Abstract In this

master thesis project the

possibility to model the

response of a wing

when subjected to bird

strike using finite

elements is analyzed.

Since this

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Captain Jürgen Raps
and his co-pilot board
the full-motion A380
simulator at the Airbus
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show us how to deal
with a bird strike and s...

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the simulation, the
underlying model for

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the detection of bird strikes in the simulation as well as the resulting set-up. This is followed by an analysis of the simulation results. II.

METHOD To develop a simulation environment for the analysis of bird strikes, an underlying simulation platform is required. This study relies on the BlueSky Open Air Traf?c

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Simulator developed by
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Technology.
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Simulating the Risk of
Bird Strikes - ENRAM
In aircraft engineering
there is a strong interest
in reliable numerical
methods for structural
design under
vulnerability aspects to
reduce testing expenses

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and development time. One major load case is bird strike on aircraft composite components that are nowadays typically made of composite materials.

Bird Strike Simulations
on Composite Aircraft
Structures

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on October 26, 2020 by
guest the ability of aero-
engine critical structures
to withstand bird-strike
events by implementing
reliable experimental,
theoretical, and
numerical methods.

Finally, the book
investigates the

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Wing Leading ...

The third step deals with the numerical simulation of bird strike experiments on two novel aircraft LE designs. The influence on the numerical results of the critical modelling issues such as the mesh density of the highly

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impacted areas, the substitute bird flexibility as well as the material damage and contact interfaces parameters are discussed in detail.

Bird strike simulation on a novel composite leading edge ...

Although exterior aircraft structures are exposed to various

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threats of foreign object
damage like hail,
runway debris or tire
rubber impact, about
90% of all incidences
today are reported to
be...

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Composite Aircraft
Structures
General Electrics test jet
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engines. Among the
many tests, it shoots
birds into the jet engine
fan-blades. I know what
it feels like to be aircraft
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Strike Simulator. At
NTS, our bird strike
simulator is capable of
launching either real
birds or gelatin
substitutes at speeds up
to 350 ...

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DRD has performed
finite element analysis
to simulate a bird strike
on an aircraft
windshield for the
NORDAM Group's
Transparency Division.
The NORDAM Group
is recognized worldwide
as an industry leader in

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the manufacture, repair
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bonded-honeycomb
components, fan/thrust
reversers, engine
components, interiors
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with ANSYS LS-
DYNA — DRD
Technology ...
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A bird strike—sometimes called birdstrike, bird ingestion, bird hit, or bird aircraft strike hazard (BASH)—is a collision between an airborne animal and a manmade vehicle, usually an aircraft. The term is also used for bird deaths resulting from collisions with structures such as power lines, towers and wind

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turbines. Bird strikes are a significant threat to flight safety, and have caused a number of accidents with human casualties. There are over 13,000 bird strikes annually in the US ...

Bird strike - Wikipedia
Collisions between birds and aircraft are one of the most dangerous

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threats to flight safety.

In this study, smoothed particles hydrodynamics (SPH) method is used for simulating the bird strike to an airplane wing leading edge structure. In order to verify the model, first, experiment of bird strike to a flat aluminum plate is simulated, and then bird impact on an airplane wing leading

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edge structure is On

investigated.

Aircraft

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3. Analysis of bird strike
on wing ... -

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ngs{Heimbs2011BirdSS
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Heimbs}, year={2011}
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Simulations on

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A chicken gun is a large-diameter, compressed-air cannon used to fire dead chickens at aircraft components in order to

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simulate high-speed bird strikes during the aircraft's flight. Jet engines and aircraft windshields are particularly vulnerable to damage from such strikes, and are the most common target in such tests. Whole, dead, standard-size chickens, as would be used for cooking, are thought to accurately simulate a

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large, live bird striking a
plane in flight.

Composite

Chicken gun -

Wikipedia

Simulation of Bird

Impact on an Aircraft

Windshield Nanjing

University of

Aeronautics &

Astronautics The

January 2009 forced

ditching of US Airways

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flight 1549 into New York City's Hudson River served as a reminder that bird strikes on aircraft pose a serious safety threat. While this particular incident was caused by birds striking both ...

Simulation of Bird
Impact on an Aircraft
Windshield

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Finite element simulation of PMMA aircraft windshield against bird strike by using a rate and temperature dependent nonlinear viscoelastic constitutive model. ... A preliminary validation of the modified ZWT model for simulating the bird strike of PMMA windshield is achieved through the comparison

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Finite element
simulation of PMMA
aircraft windshield ...
Simulating Bird Strike
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Wing Leading Edge. By
Max Ericsson. Abstract.
In this master thesis
project the possibility to
model the response of a

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wing when subjected to
bird strike using finite
elements is analyzed.

Since this transient
event lasts only a few
milliseconds the used
solution method is
explicit time integration

...

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