

High Reynolds Number Turbulent Boundary Layer Flow over Small Forward Facing Steps

Manuj Awasthi

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in

Aerospace Engineering

William J. Devenport

Kevin T. Lowe

Stewart A.L. Glegg

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Figure 2: Design Layout of Virginia Tech Stability Wind Tunnel, Acoustic Test Section, Modified Test Section for Present Work

Figure 3: Virginia Tech Stability Tunnel Fan

Used with Permission of Dr. William J. Devenport, Professor & Assistant Department Head for Laboratory Facilities and Director of the VT Stability Wind Tunnel

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William Devenport <devenport@vt.edu>
To: Manuj Awasthi <vtmanuj@gmail.com>

Tue, Jul 17, 2012 at 7:58 AM

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From: Manuj Awasthi [mailto:vtmanuj@gmail.com]
Sent: Tuesday, July 17, 2012 12:28 AM
To: William Devenport
Subject: Permission for figures in masters thesis

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Manuj Awasthi <vtmanuj@gmail.com>
To: William Devenport <devenport@vt.edu>

Tue, Jul 17, 2012 at 12:27 AM

Hi Dr. Devenport,

May I have your written permission to use adapted versions of the Virginia Tech Stability Wind Tunnel schematics found at :

<http://www.aoe.vt.edu/research/facilities/stabilitytunnel/acoustics-stabilitytunnel.html>

in figures 2 and 3 of my masters thesis

Thank You
Manuj Awasthi

Figure 4: Test Wall/Contraction Area view (9.5 mm boundary layer trip shown in inset on top left

Figure 7: Test wall to test section attachment mechanism

Figure 16: B&K Microphone calibration magnitude and phase curves

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Jonathan Forest <jforest@vt.edu>
To: Manuj Awasthi <vtmanuj@gmail.com>

Tue, Jul 17, 2012 at 6:59 PM

Manuj,

You have my permission to use all 3 figures listed below in your Thesis.

-Jon Forest

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Jonathan Forest
NSWC:CD, Code 70
Ship Signatures Department

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Manuj Awasthi <vtmanuj@gmail.com>
To: Jonathan Forest <jforest@vt.edu>

Tue, Jul 17, 2012 at 12:24 AM

Hi Jonathan,

May I have your written permission to use the following pictures that you took during the Feb/March 2012 Virginia Tech Stability Wind Tunnel entry in my Master's thesis

1. Figure 4 showing the 9.5 mm boundary layer trip
2. Figure 7 showing the pictures of the false wall rail
3. Figure 16 showing the microphone calibration and fitted calibration curves for one of the B&K 4138 measurement microphones

Thank You
Manuj Awasthi