



**PEER REVIEW OF LECTURES: ASSESSMENT FORM
DEPARTMENT OF AEROSPACE ENGINEERING**

Lecturer: Dr A Guha
Unit: Fluids and Thermodynamics
Topic of Lecture: Control Volume Analysis

Reviewer: Prof. N. Lieven
Year: 1
Date: 18/2/2004

OBJECTIVES

**To present control volume analysis of sudden enlargement and contraction.
To reflect on complementarity of theory and experiments.**

PRESENTATION

**Objectives outlined at the beginning of the lecture.
A genuine enthusiasm which is infectious and appreciated by the students
(a model for other lecturers).
Emphasis of the fundamental physics of the flow really makes the students to think.
Attending this lecture is not a “passive” experience, one cannot fail to be involved in
the subject.**

CONTENT

**Clear recapitulation of the previous lecture.
Constantly probing the understanding of the students (good!).
The link with the philosophical nature of thermodynamics / fluid
is genuinely challenging – we should do more of this in other subjects.
I wish I had been taught like this at university!**

OTHER REMARKS OF THE REVIEWER

None – for good reason, this is the most highly regarded module in our undergraduate programme!

Signed

Reviewer NAJ LIEVEN

Prof. Nick Lieven is currently the Pro-Vice-Chancellor of University of Bristol.

Prof. Lieven was the Head of the Aerospace Engineering Department at the time of writing the above review. He later became the Dean of the Faculty of Engineering.

The Original Peer Review Form is given below.

A Guha’s lectures have been Peer-Reviewed, with similar comments, by Profs. Martin Lowson, John Hogan, Alan Champneys, Sandy Mitchell, Mike Tierney, Michael Wisnom, Mike Friswell, Mark Lowenberg, Chris McMahon.



PEER REVIEW OF LECTURES: ASSESSMENT FORM
DEPARTMENT OF AEROSPACE ENGINEERING

Lecturer: DR A GUHA Reviewer: PROF N LIEVEN
 Unit: FLUIDS & THERMODYNAMICS Year 1/2/3/4
 Topic of Lecture: CONTROL VOLUME ANALYSIS Date: 18/2/2004

The reviewer should sit in on the lecture and view it from a student perspective in accordance with the document AE/EDU/2003/6. It is anticipated that the majority of the comments should be informally exchanged between the reviewer and the lecturer. In addition overall comments should be included on this form. The following check-list only suggests possible areas for comment, it is not expected that all areas must be commented upon.

OBJECTIVES (what are the teaching/learning objectives and how well are they met)

- TO PRESENT CONTROL VOLUME ANALYSIS OF SUDDEN ENLARGEMENT AND CONTRACTION
- TO REFLECT ON COMPLEMENTARITY OF THEORY AND EXPERIMENTS.

PRESENTATION (lecture structure, audibility, use of resources e.g. visual material, learning environment, audience interaction, enthusiasm)

Objectives outlined at the beginning of the lecture. A genuine enthusiasm which is infectious and appreciated by the students (a model for the lecturers). Emphasis on the fundamental physics of the flow really makes the students think. Attending this lecture is not a "passive" experience, you cannot fail to be involved in the subject.

CONTENT (links with past course material, intelligibility, relevance, interest)

Clear recapitulation of the previous lecture. Constantly probing the understanding of students (good!). The links with the philosophical nature of thermodynamics/fluid is genuinely challenging - we should do more of this in other subjects. I wish I had been taught like this at University!

OTHER REMARKS OF THE REVIEWER

None - for good reason, this is the most highly regarded module in our undergraduate programme!

ANY COMMENTS OF THE LECTURER

Signed:

Nick Lieven

Signed:

Reviewer N A J LIEVEN

Lecturer