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Luis Hernández[†]

Institution or Company Name
City, State

Maria Silva[†]

Institution or Company Name
City, Province, Canada

Henry Tudor, Catherine Parr

Hampton Court Palace
Richmond, England

Jinsoo Kim

Institution or Company Name
City, Country

Yusuf Yilmaz

Institution or Company Name
City, Country

John H. Lienhard V*

Massachusetts Institute of Technology
Cambridge, MA

ABSTRACT

This paper is an example of and a template for typesetting ASME Conference Papers in L^AT_EX using the asmeconf class. This class follows ASME guidelines for margins, fonts, headings, captions, and reference formats as of early 2020. The class is intended to be used with the asmeconf.bst B^BT_EX style, which is part of this distribution. The class is compatible with the hyperref package, so that pdfs will contain internal and external hyperlinks, pdf bookmarks, and metadata. Links may be colored, for online use, or black, for publication. Section headers may contain mathematics, references, citations, and footnotes. The class enables inline author names, following ASME's current style, but is backward compatible to the traditional block style. The class includes many options, e.g., for math fonts. The class calls a number of packages, all of which are in T_EX Live and on CTAN. The class is compatible with pdfL^AT_EX or LuaL^AT_EX.

Keywords: ASME, Paper, Template, L^AT_EX, Research

Superscripts and subscripts

b bulk value
∞ free stream value

1. INTRODUCTION

The asmeconf class file will typeset papers with margins, fonts, headings, captions, and reference formats that follow those specified for conference papers of the American Society of Mechanical Engineers (ASME). Internal and external hyperlinks will be set automatically, and the pdf file will contain bookmarks and metadata. This class is not a publication of ASME.

The .tex file may be written using standard L^AT_EX commands, although some specific initial commands are needed to format the blocks containing the author[s], title, and abstract. This class loads a number of other packages, all of which are contained in up-to-date versions of T_EX Live, MacT_EX, and similar distributions. If you find you are missing one of these packages, you may obtain it at no cost from CTAN (ctan.org).

1.1 Essential Initial Commands

To begin, fill in the fields to be completed at top of the asmeconf-template.tex file. These fields include the headers for your conference and your paper number. Specified metadata will be placed into the pdf file itself. The title should be placed into \title{...}.

Put author names into the \SetAuthors{name, name,...} command in the desired order; follow the syntax illustrated asmeconf-template.tex file. Put each distinct address sequentially into a separate \SetAffiliation{n}{address}, where $n = 1, 2, \dots$. Tag each author with the right affiliation by putting \affil{n} after that author's name inside the \SetAuthors{...} command.

Author addresses are to be kept short. List the author institution, and the City, State (US authors), City, Province, Canada

NOMENCLATURE

Roman letters

k Thermal conductivity [$\text{W m}^{-1} \text{K}^{-1}$]
 \vec{q} Heat flux vector [W m^{-2}]

Greek letters

α Thermal diffusivity [$\text{m}^2 \text{s}^{-1}$]
 ν Kinematic viscosity [$\text{m}^2 \text{s}^{-1}$]

Dimensionless groups

Pr Prandtl number, ν/α
Sc Schmidt number, $\nu/D_{1,2}$

[†]Joint first authors

*Corresponding author: lienhard@mit.edu

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