

ENGLISH TITLE OF THE PAPER (MAXIMUM TWO LINES)

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ABSTRACT

Abstracts must be provided in both English and French. Each abstract must be a single paragraph and short enough to avoid that this page overflows. The abstracts should not include words in italics (unless for parameters such as in “ n DOFs”), in bold, or underlined (unless part of a symbol such as in “3-RPR”), references (“[1]” is not allowed, for example), expressions (unless very simply such as “ $n \leq 6$ ”), and more than a couple of special symbols (such as “ H_∞ ” and “MATLAB®”) or Greek letters (such as “ ω_Γ ”). At least three keywords, separated by semi-columns, are compulsory following both abstracts. The keywords are in lower-case.

Keywords: first keyword; second keyword; third keyword.

TITRE FRANÇAIS DE L'ARTICLE (MAXIMUM DEUX LIGNES)

RÉSUMÉ

Le résumé français est obligatoire. Évidemment, si l'article est rédigé en français, le titre principal et le résumé principal sont en français. Par contre, il ne faut pas traduire le texte « Received . . . Accession Number 0000 ».

Mots-clés : premier mot-clé; deuxième mot-clé; troisième mot-clé.

NOMENCLATURE (OPTIONAL SECTION)

A	heat transfer area (m ²)
b_e	specific fuel consumption (kg/kWh)
B_e	annual fuel consumption (kg/kWyr)
BP	pump power (W)
C_p	specific heat (W/oC)
T	temperature (oC)
V	fluid velocity (m/s)
YPT	annual savings (\$/year)
Δz	height elevation difference (m)
Greek symbols	
ε	heat exchanger effectiveness, or wall roughness (mm)
γ	specific gravity (kg/m ² s ²)
η_k	boiler efficiency
η_p	pump efficiency
μ	dynamic viscosity (kg/ms)
ρ	density (kg/m ³)
Subscripts	
c	cold
D	diameter
g	geofluid

1. INTRODUCTION

Load CCToMM-sample.tex and type over, cut and paste and insert figures, etc., as required.

Here is an example of two equations set in L^AT_EX:

$$r_{c1} = \frac{2r^2(1 - \cos \theta_x) - h_{xx}^2}{2r(\cos \theta_x - 1)} \quad (1)$$

and

$$\varphi_p = \tan^{-1} \left(\frac{r \tan \theta_x - r \sin \theta_x}{r - r \cos \theta_x} \right). \quad (2)$$

Equation numbering is done automatically by L^AT_EX. Refer to equations as in “from Eq. (1)” rather than as in “from Equation 1”, “from (1)” or “from eq. (1)”, etc. When referring to several equations, use “from Eqs. (1–3)” or “from Eqs. (1) and (2)”. Finally, when referring to equations in parentheses, you can skip the parentheses of the equation numbers, as in “(as already seen from Eqs. 1 and 2)”.

2. FIGURES AND TABLES

2.1. Second-Level Captions are in Title Case

In the final submission, figures should be supplied as high-resolution (at least 300 dpi) separate image files, in either TIFF or JPEG format. The figures should be clear and legible, with as little compression as possible. The text annotations in the figure should be neither too small nor too large compared to the font size of the paper body (i.e., 13 pt), once the figure is placed in the body of the paper. In the case of subfigures, it is preferable to submit each subfigure as a separate image file. Finally, name each image file as in 10-CSME-34.f1a.jpg or 10-CSME-34.f1a.tif, where 10-CSME-34 is the paper number.

Figure” and “Figure Caption.” Figures 1 and 2 show examples of acceptable figures.

Figure 3 shows an example of an unacceptable figure.

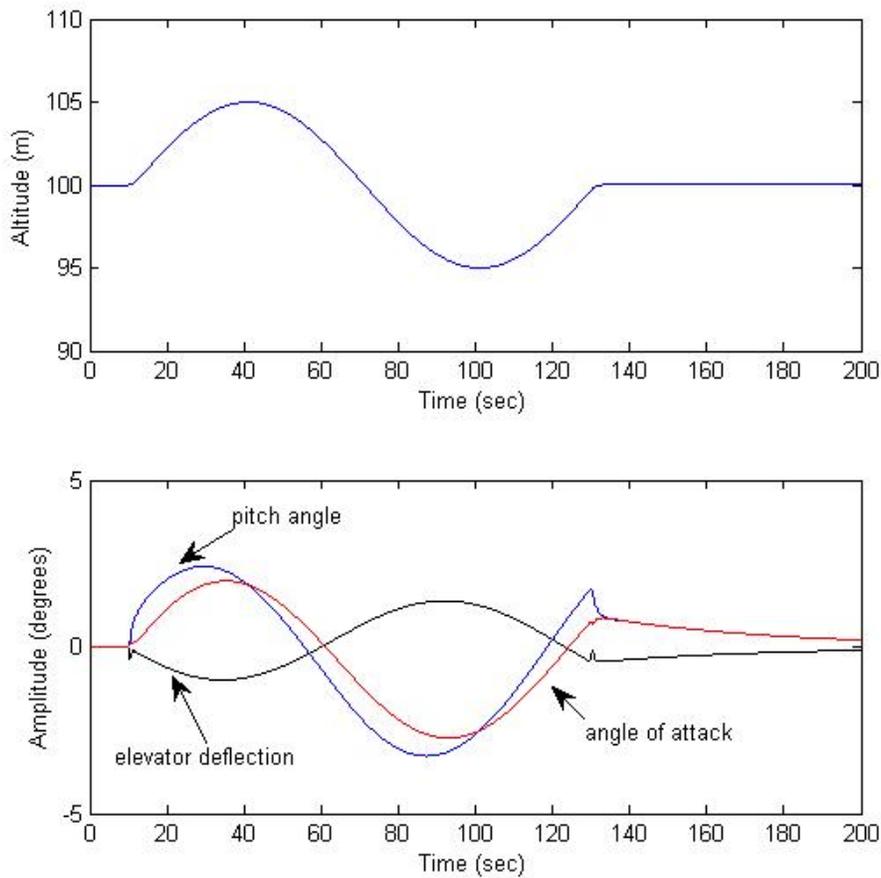


Fig. 1. When the caption is on a single line, it is centered, rather than justified.

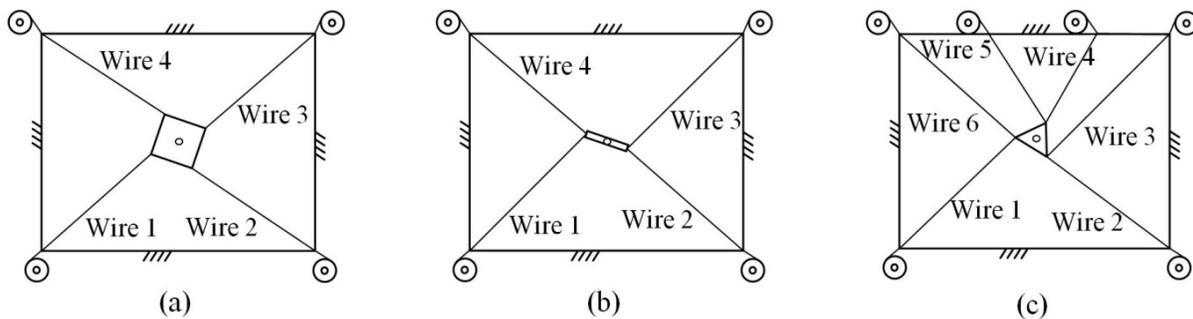


Fig. 2. Figure captions should be no longer than three lines. Avoid placing equations and too many symbols in the figure caption. The legends of each subfigure are simply “(a)”, “(b)”, etc. Here is how they are described in the figure caption: (a) configuration 1, (b) configuration 2, (c) configuration 3.

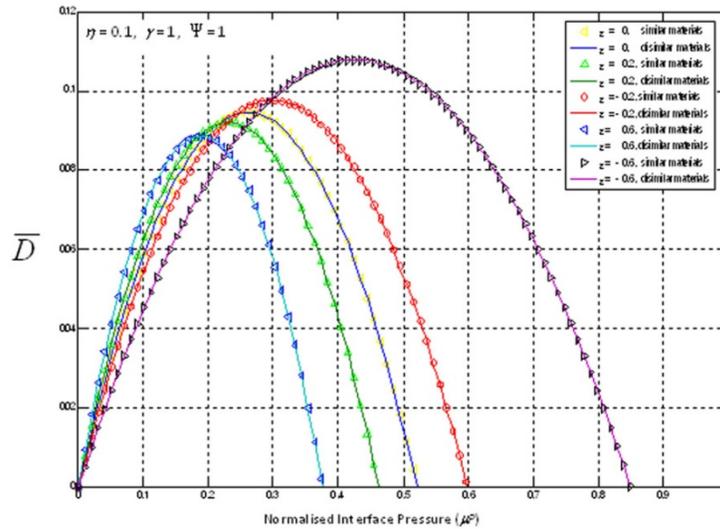


Fig. 3. This figure is unacceptable because most of the text annotations are too small and unreadable.

	Requirements	Proposed Design	PID design
Damping ratio	> 0.5	0.64	0.4
Gain margin	$> 10 \text{ dB}$	17.44	13.5
Phase margin	$> 50^\circ$	61.22	29.4
Loop gan at 10 rad/sec	$< -10 \text{ dB}$	-18.70	-14.7

Table 1. Example of an acceptable table

As already demonstrated, figures should be referred to in the text as in “shown in Fig. 1” or “the configurations shown in Fig. 1(a–b)”. When the word figure is at the beginning of a sentence, it is spelled out.

2.2. Tables

Tables like this can be prepared using the example in the \LaTeX source file.

All figures and tables should be referred to in the text.

2.2.1. An example of a level-three heading

Level-three headings are acceptable, but not level-four ones. Sections are referred to as in “it was shown in Section 1.1.1 that”.

3. CONCLUSIONS

Respecting the above instructions will shorten the time between the final manuscript submission and its subsequent publication.

ACKNOWLEDGEMENTS (OPTIONAL SECTION)

References should be numbered in the order in which they appear in the paper and should be referred to as “Smith and Jones [1],” or “Hervé et al. [2],” or simply as in “as proved in [3].” Cite references as in “[1,2,6]”, “[1,2]”, and “[3–7]” rather than as in “[6,1,2]”, “[1–2]”, “[1]–[2]”, or “[3,4,5,6,7]”. If you use L^AT_EX’s `\cite`-command as in `\cite{smith,herve}`, this will be done automatically. The references should be listed at the end of the text and arranged as in the following examples. You may use Bib_TE_X and the Bib_TE_X-style `tcsmc`. If you format your references by hand, please carefully stick to this style. It is very important to not abbreviate journal names and conference names.

REFERENCES

1. Smith, J.J. and Jones, A.B. “Title of paper in sentence case.” *Unabbreviated Journal Name in Italics and in Title Case*, Vol. 1, No. 1, pp. 1–20, 2001.
2. Hervé, J.M., Lefèbvre, S. and D’Artagnan, T. *Book Title*. 2 ed.. Springer, 2002.
3. Milošević, V. “Title of paper.” In “Proceedings of Unabbreviated Conference Name,” pp. 1–20. Paris, France, July 12–16 2009.
4. Kontz, M.E., Beckwith, J. and Book, W.J. “Evaluation of a teleoperated haptic forklift.” In “Proceedings of the 2005 IEEE/ASME International Conference on Advanced Intelligent Mechatronics,” pp. 295–300. Monterey, California, USA, July 24–28 2005.
5. Tafazoli, S., Salcudean, S.E., Hashtrudi-Zaad, K. and Lawrence, P.D. “Impedance control of a teleoperated excavator.” *IEEE Transactions on Control Systems Technology*, Vol. 10, No. 3, pp. 355–367, 2002.
6. Papadopoulos, E., Mu, B. and Frenette, R. “On modeling, identification, and control of a heavy-duty electrohydraulic harvester manipulator.” *IEEE/ASME Transactions on Mechatronics*, Vol. 8, No. 2, pp. 178–187, 2003.
7. Lawrence, D.A. “Stability and transparency in bilateral teleoperation.” *IEEE Transactions on Robotics and Automation*, Vol. 9, No. 5, pp. 624–637, 1993.

APPENDIX

Appendices, if needed, appear after the References section.