

Technical Review

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Here we consider the article of Smith, et al.¹ that describes a new idea important in classical thermodynamics... A key model equation in this study is the ideal gas law

$$PV = n\overline{R}T. \quad (1)$$

In this equation P represents pressure, V the volume, n the number of moles, $\overline{R}$ the universal gas constant, and T the absolute temperature.

The typical method of solving this problem is to.....In many cases this is deficient because.... Hence a new method is proposed which.... The method is applied to a set of test problems. It is seen that.... The authors summarize their major conclusions as follows....

The article is generally well written.... A small deficiency is seen in that... Nevertheless the strength of this article is its clarity in.....and novelty in.....Those who are interested in problems in the related fields of.... would find this to be useful.

Notes

- Use the format provided here as a template; the text is entirely yours to write. Additional L^AT_EX documentation is online in the “links” section of the AME 20231 web page.
- Your review must consider an article or book that is footnoted in the AME 20231 course notes.
- One page maximum; one equation minimum.
- Run your text file through a spell checker.
- Always use complete sentences.
- Leave two spaces after a period. Leave one space after a comma.
- Give a footnote in the precise format given below. Do not be redundant with the text.
- Use commas or periods at the end of equations as appropriate.
- Do not use contractions (such as don’t).
- Minimize quotations. Try very hard to have zero quotations. When necessary, use matched pairs of single quotes, like this: “your quote here”.
- Identify all variables with words of description.
- All mathematical variables, whether within the text or in a separate equation, should be written in math mode, e.g. “When $x = 0$, there is a singularity.”
- English text within equations should be in text mode; use the `mbox` and `qquad` commands for this:

$$x = 1 \quad \text{when} \quad y = 0.$$

- Do not let your review become dominated by equations.
- Avoid simplistic or trite statements such as, “The authors have pointed the way to a method from which we can all benefit.”
- There will be another exciting prize for the review which, in the instructor’s opinion, has the most profound combination of the following qualities: lucidity of the prose of the review and depth of understanding of the paper displayed in the review. A brief award ceremony will accompany the bestowal of the prize.

¹J. W. Smith, P. T. Jones, and C. D. Brown, 1849, “A discussion of an important concept in thermodynamics,” *Journal of Important Things*, 16(3): 541-574.