

AIAA Technical Conference Paper Example

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This is a bare-bones L^AT_EX template of an AIAA technical conference paper. It is intended to demonstrate the bare minimum set of L^AT_EX commands to produce an AIAA technical conference paper. For detailed AIAA layout and style guidelines, please refer to the AIAA author guide for paper submission, format, and other procedures.

Nomenclature

| | |
|------------------|--------------------------------|
| J | Jacobian Matrix |
| f | Residual value vector |
| x | Variable value vector |
| F | Force, N |
| m | Mass, kg |
| Δx | Variable displacement vector |
| α | Acceleration, m/s ² |
| <i>Subscript</i> | |
| i | Variable number |

I. Introduction

This would be a good place to insert some text that make sense relative to the paper being written. Of course, for example purposes, the text is quite meaningless.

A. Background

This background section is here only to demonstrate \subsection usage. And following this, the next section level will need to be demonstrated.

1. Detail

Here is a \subsubsection that would normally come in pairs of two according to the requirements of an outline, but for the sake of demonstration, we are only showing a single \subsubsection.

II. Model

We should probably include some math. Here we begin with Eq. (1) that demonstrates some math typesetting.

$$\int_0^{r_2} F(r, \varphi) dr d\varphi = [\sigma r_2 / (2\mu_0)] \cdot \int_0^\infty \exp(-\rho|z_j - z_i|) \lambda^{-1} \quad (1)$$

Eq. (1) is grand. Some say it is due to Sutton.¹

III. Results

In this section we will introduce some figures and tables. It can be seen in figure 1 that magnetization is a function of applied field. Sometimes writing meaningless text can be quiet easy, but other times one is hard pressed to keep the words flowing.[†] Meanwhile back in the other world, table 1 shows a nifty comparion.

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[†]And sometimes things get carried away in endless detail.

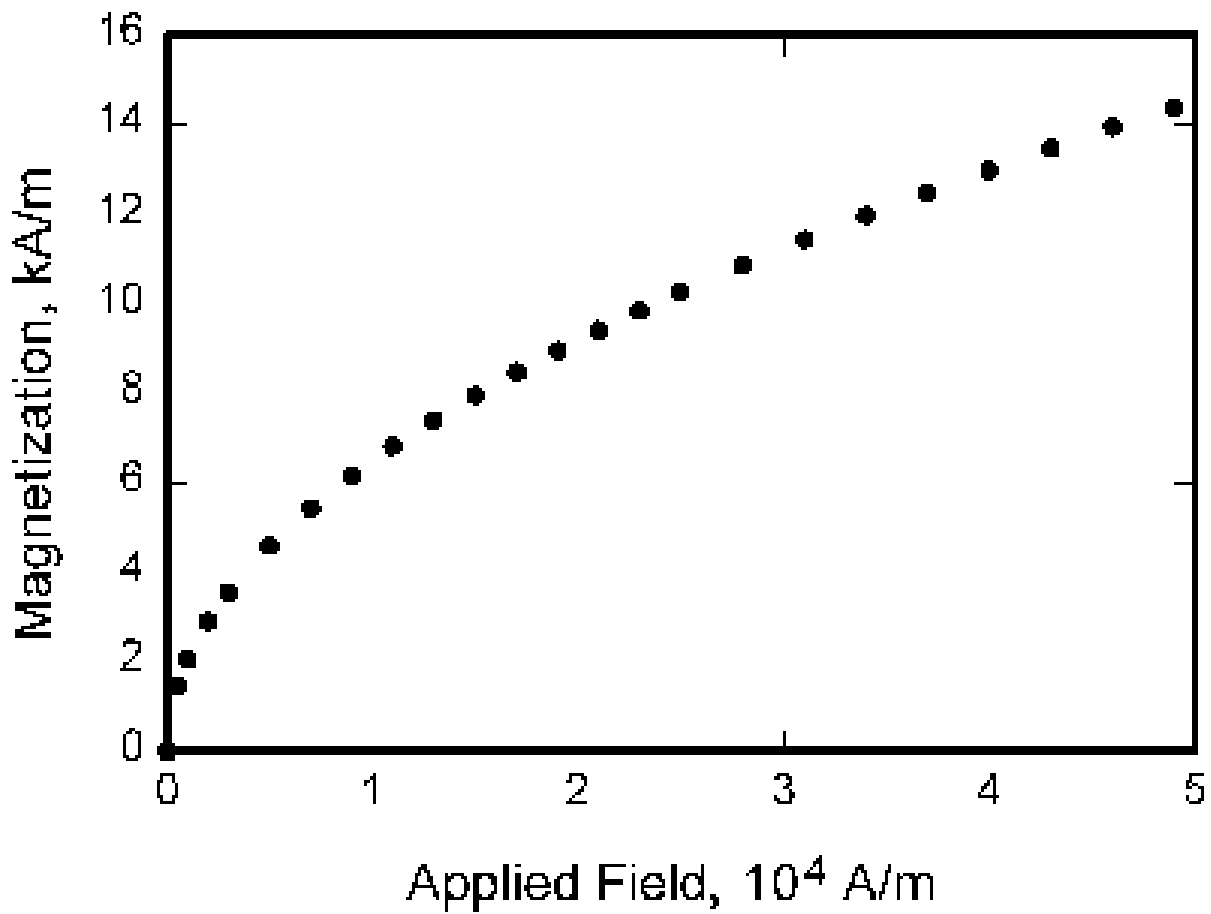


Figure 1. Magnetization as a function of applied field, which has borders so thick that they overwhelm the data and for some reason the ordinate label is rotated 90 degrees to make it difficult to read. This figure also demonstrates the dangers of using a bitmap as opposed to a vector image.

Table 1. Variable and Fixed Coefficient Runge-Kutta Schemes as a Function of Reynolds Number

| Re | Vary | Fixed |
|--------|------|-------|
| 1 | 868 | 4,271 |
| 10 | 422 | 2,736 |
| 25 | 252 | 1,374 |
| 50 | 151 | 736 |
| 100 | 110 | 387 |
| 500 | 85 | 136 |
| 1,000 | 77 | 117 |
| 5,000 | 81 | 98 |
| 10,000 | 82 | 99 |

IV. Conclusion

After much typing, the paper can now conclude. Four rocks were next to the channel. This caused a few standing waves during the rip that one could ride on the way in or jump on the way out.

Appendix

An appendix, if needed, it should appear before the acknowledgments. Use the 'starred' version of the `\section` commands to avoid section numbering.

Acknowledgments

A place to recognize others or simply thank Kleb and Wood for this template.

References

¹Sutton, K., "Air Radiation Revisted," *Thermal Design of Aeroassisted Orbital Transfer Vehicles*, edited by H. F. Nelson, Vol. 96, AIAA, New York, 1985, pp. 419–441.