MAE 298 Introduction to PDEs Electrochemical Modeling of Batteries

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***Abstract*—This**

***Index Terms*—Article submission, IEEE, IEEEtran, journal, LaTeX, paper, template, typesetting.**

I. Introduction

THIS

II. Motivation

III. Derivation

IV. Analysis of Governing PDEs

V. Numerical Solution

VI. Results

A. Cases Structures

Many times cases can be miscoded using the wrong environment, i.e., `array`. Using the `cases` environment will save keystrokes (from not having to type the `\left\lbrace`) and automatically provide the correct column alignment.

$$z_m(t) = \begin{cases} 1, & \text{if } \beta_m(t) \\ 0, & \text{otherwise.} \end{cases}$$

is coded as follows:

VII. Conclusion

The conclusion goes here.

Acknowledgments

This should be a simple paragraph before the References to thank those individuals and institutions who have supported your work on this article.

VIII. References Section

You can use a bibliography generated by BibTeX as a .bbl file. BibTeX documentation can be easily obtained at: http://mirror.ctan.org/biblio/bibtex/contrib/doc/ The IEEEtran BibTeX style support page is: http://www.michaelshell.org/tex/ieeetran/bibtex/

IX. Simple References

You can manually copy in the resultant .bbl file and set second argument of `\begin` to the number of references (used to reserve space for the reference number labels box).

References

[1] *Mathematics Into Type*. American Mathematical Society. [Online]. Available: https://www.ams.org/arc/styleguide/mit-2.pdf
[2] T. W. Chaundy, P. R. Barrett and C. Batey, *The Printing of Mathematics*. London, U.K., Oxford Univ. Press, 1954.
[3] F. Mittelbach and M. Goossens, *The LaTeXCompanion*, 2nd ed. Boston, MA, USA: Pearson, 2004.

X. Biography Section