

Title of Your IPST 2027 Paper: Use Sentence Case with Capitalized First Word

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Abstract—This document provides a template, for authors preparing a paper for the IPST 2027 International Conference on Power Systems Transients. It is based on IEEE Journal Template available at IEEE website.

The abstract should briefly summarize the motivation, methodology, and main findings of the work in no more than 200 words. Do not include citations, undefined abbreviations, or mathematical symbols in the abstract.

Index Terms—Power system transients, electromagnetic transients, EMT simulation, insulation coordination, keyword five.

I. INTRODUCTION

This section should introduce the problem addressed by the paper, review relevant prior work with citations [1], [2], and clearly state the contribution and organization of the paper. IPST papers are typically limited to a maximum of seven (7) pages, including figures, tables, and references, unless the (future) IPST 2027 call for papers states otherwise.

Citations can also be given in-line, e.g. as shown by Author et al. in [2].

II. METHODOLOGY

Describe the modeling approach, simulation tool (e.g. EMT program), network/system under study, and any assumptions made.

A. Sub-section Example

Use subsections to organize the methodology into logical parts, e.g. system modeling, simulation setup, and validation procedure.

B. Equations

Equations should be numbered consecutively, with the equation number in parentheses flush right:

This work was supported in part by the {Funding Agency Name} under Grant {Grant Number}, and in part by {Company/Institution Name}. (*Corresponding author: First A. Author.*)

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Second B. Author is with Company/Institution Name, City, Postcode, Country (e-mail: second.author@company.com). This research was funded by {Funding Agency Name}, grant number {Grant Number}. {Add any additional funding sources, fellowships, or in-kind support here.} The funders had no role in the design of the study; in the collection, analysis, or interpretation of data; in the writing of the manuscript; or in the decision to publish the results.

$$v(t) = V_m \sin(\omega t + \varphi) \quad (1)$$

Refer to equations in text as, e.g., “as shown in (1)”.

III. CASE STUDIES AND RESULTS

Present and discuss simulation or experimental results, using figures and tables as needed.

A. Figures

Figures should be centered, with the caption placed below the figure, as shown in Fig. 1. Use vector graphics (PDF/EPS) whenever possible for clarity. The example below plots a standard double-exponential lightning impulse voltage waveform (IEC 60060-1, 1.2/50 μ s), a representative EMT case study output for insulation coordination studies.

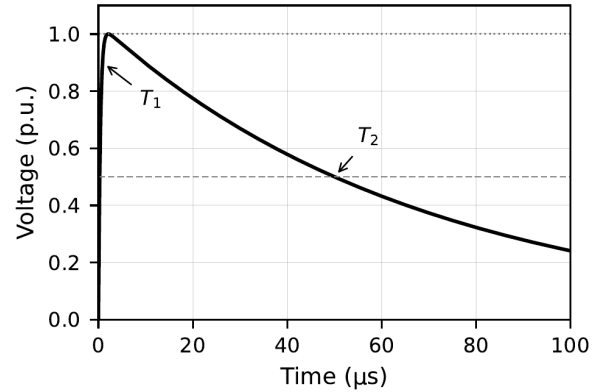


Fig. 1. Simulated 1.2/50 μ s standard lightning impulse voltage waveform, normalized to 1 p.u. peak. The front time T_1 and time to half-value T_2 are defined per IEC 60060-1.

B. Tables

Table captions should be placed above the table (numbered using Roman numerals), as shown in Table I. The values below correspond to the waveform plotted in Fig. 1.

TABLE I
SIMULATED LIGHTNING IMPULSE WAVEFORM PARAMETERS

Parameter	Value	Unit
Peak voltage, V_p	1.00	p.u.
Front time, T_1	1.21	μ s
Time to half-value, T_2	50.0	μ s
Decay coefficient, α	0.0146	1/ μ s
Rise coefficient, β	2.467	1/ μ s

IV. DISCUSSION

Discuss the significance of the results, comparisons with prior work, and practical implications for power system transient analysis.

V. CONCLUSION

Summarize the main findings and contributions of the paper, and suggest directions for future work.

ACKNOWLEDGMENT

The authors would like to thank {individuals/institutions} for their support. Acknowledge any technical or editorial assistance that does not qualify the contributor for authorship.

REFERENCES

***Note to authors:** replace the list below with your own references. IEEE style uses numbered, bracketed citations listed in order of appearance in the text. Reference managers such as JabRef or Zotero may be used to organize the bibliography.*

- [1] H. W. Dommel, "Digital computer solution of electromagnetic transients in single- and multiphase networks," *IEEE Trans. Power App. Syst.*, vol. PAS-88, no. 4, pp. 388–399, Apr. 1969.
- [2] A. Ametani, N. Nagaoka, Y. Baba, and T. Ohno, *Power System Transients: Theory and Applications*. Boca Raton, FL, USA: CRC Press, 2015.