

Sample LaTeX Document

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1 Introduction

This is a sample document to demonstrate the use of LaTeX. LaTeX is a powerful tool for typesetting documents, especially those that include mathematical equations.

2 Mathematical Equation

Here is an example of a mathematical equation:

$$E = mc^2 \tag{1}$$

$$\textit{Calculate}(\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) : \tag{2}$$