

# **Symbolic Computation for Modern Physics**

by

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This thesis presents novel approaches to symbolic computation in physics.

# **Chapter 1**

## **Introduction**

This thesis explores symbolic computation in physics apply to Einstein equation:

$$E = mc^2$$

## **Chapter 2**

### **Methods**

We employ the quadratic formula for root finding:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Our results are summarized below:

## **Chapter 3**

### **Conclusion**

This work demonstrates the power of symbolic methods.