

# Science Textbook

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*A Latex Template for a Science Textbook*

First Edition



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Author Name  
*City, Country*



Self Publishers Worldwide  
Seattle San Francisco New York  
London Paris Rome Beijing Barcelona

This book was typeset using L<sup>A</sup>T<sub>E</sub>X software.

# Preface

The theory of relativity is intimately connected with the theory of space and time. I shall therefore begin with a brief investigation of the origin of our ideas of space and time, although in doing so I know that I introduce a controversial subject. The object of all science, whether natural science or psychology, is to co-ordinate our experiences and to bring them into a logical system. How are our customary ideas of space and time related to the character of our experiences?

$$\left. \begin{aligned} &\sqrt{dX_1^2 + dX_2^2 + dX_3^2} \\ &= \left(1 + \frac{\kappa}{8\pi} \int \frac{\sigma dV_0}{r}\right) \sqrt{dx_1^2 + dx_2^2 + dx_3^2}, \\ &dT = \left(1 - \frac{\kappa}{8\pi} \int \frac{\sigma dV_0}{r}\right) dl. \end{aligned} \right\}$$

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# Chapter 1

## Introduction

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### 1.1.4 Exercises

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### 1.2.1 Examples

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## Chapter 2

# Theory of Numbers

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## Chapter 3

# Irrational and Transcendent Numbers

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## Chapter 4

# Complex Numbers

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## Chapter 5

# Quaternions and Ausdehnungslehre

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## Chapter 6

# Theory of Equations

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## Chapter 7

# Substitutions and Groups

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# Chapter 8

## Determinants

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# Chapter 9

## Quantics

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# Chapter 10

## Calculus

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## Chapter 11

# Differential Equations

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# Chapter 12

## Infinite Series

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## Chapter 13

# Theory of Functions

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## Chapter 14

# Probabilities and Least Squares

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# Chapter 15

## Analytic Geometry

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## Chapter 16

# Modern Geometry

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## Chapter 17

# Trigonometry and Elementary Geometry

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## Chapter 18

# Non-Euclidean Geometry

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# Chapter 19

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# Chapter 20

## General Tendencies

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