### Techniques in Olympiad Inequalities

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August 13, 2020

#### Preface

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#### **Basics**

- 1.1 Introduction
- 1.2 Power Mean Inequality
- 1.3 Cauchy-Schwarz Inequality
- 1.4 Rearrangement and Chebyshev Inequality
- 1.5 Majorization, Karamata and Jensen's Inequality

# Chapter 2 The Buffalo Way

# Chapter 3 Substitutions

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# Homogenization and Normalization

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# Engel Form of Cauchy-Schwarz



# Reverse Rearrangement Inequality

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# Squares Analysis Method



## The UVW Method

# Mixing Variables Technique

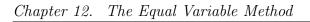


# Schur-Vornicu-Mildorf Inequality



# Dumbassing

# The Equal Variable Method



## **Problems**

## Exercises