

# Semidefinite Optimization and Relaxation

Heng Yang

2023-11-05



# Contents

<b>Preface</b>	<b>5</b>
<b>1 Semidefinite Programming</b>	<b>7</b>
1.1 Standard Form . . . . .	7



# Preface

This is the textbook for Harvard ENG-SCI 257: Semidefinite Optimization and Relaxation. Information about the offerings of the class is listed below.

## **2024 Spring**

**Time:** Mon/Wed 2:15 - 3:30pm

**Location:** Science and Engineering Complex, Room TBD

**Instructor:** Heng Yang

**Teaching Fellow:** Safwan Hossain

**Syllabus**

**Acknowledgment**



## Chapter 1

# Semidefinite Programming

### 1.1 Standard Form