

Chapter 1



- 1.1 Introduction
- 1.2 Array Processors for Signal and Image Processing
- 1.3 VLSI Architecture Design Principles
- 1.4 Overview of the Chapters
- 1.5 Other Closely Related Research Disciplines
- 1.6 Concluding Remarks
- 1.7 Problems

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1.1 Introduction



1.1 Introduction

Y-Chart for Array Processor Design



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Throughput Requirements for DSP Algorithms









VLSI Array Processor: Derive Concurrency



2. Pipeline Processing



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1.4 Overview of the Chapters



The Book Chapters are Covered.

- 1. Introduction An Overview
- 2. Signal and Image Processing Algorithms
- 3. Mapping Algorithm onto Array Structures
- 4. Systolic Array Processors
- 5. Wavefront Array Processors
- 6. System and Software Design
- 7. Implementation of Array Processors
- 8. Application to Signal and Image Processing