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Nota di contenuto	Intro -- Contents -- Preface -- 1. Why Are We Forced to Deal with Heterogeneous Computing? -- 2. Different Players: Heterogeneity in Computing -- 3. Architecture: Heterogeneity in Design -- 4. Programmability -- 5. Research Directions -- References -- Index -- Author's Biography -- Blank Page.
Sommario/riassunto	Heterogeneous computing results in both challenges and opportunities. This book discusses both. It shows that we need to deal with these challenges at all levels of the computing stack: from algorithms all the way to process technology. We discuss the topic of heterogeneous computing from different angles: hardware challenges, current hardware state-of-the-art, software issues, how to make the best use of the current heterogeneous systems, and what lies ahead. The aim of this book is to introduce the big picture of heterogeneous computing. Whether you are a hardware designer or a software developer, you need to know how the pieces of the puzzle fit together. The main goal is to bring researchers and engineers to the forefront of the research frontier in the new era that started a few years ago and is expected to continue for decades. We believe that academics, researchers, practitioners, and students will benefit from this book and will be prepared to tackle the big wave of heterogeneous computing that is here to stay.

