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Nota di contenuto	Cover; Contents; Preface; PART I: The Study of Middle Age; 1 - Historical Perspectives of Middle Age Within the Life Span; 2 - The Midlife Generation in the Family; PART II: Early Life Influences on Middle Age; 3 - Genetic Influences on Midlife Functioning; 4 - Personality in Young Adulthood and Functioning in Middle Age; 5 - Impact of Past Transitions on Well-Being in Middle Age; 6 - Cognitive Development in Midlife; 7 - The Development of Physical and Mental Health From Late Midlife to Early Old Age; 8 - Cognitive Trajectories in Midlife and Cognitive Functioning in Old Age 9 - Self-Development at Midlife10 - Middle Age and Identity in a Cultural and Lifespan Perspective; 11 - Metacognition in Midlife; PART IV: Summary and Future Directions; 12 - Midlife Development; Author Index; Subject Index
Sommario/riassunto	Factors in adolescence and young adulthood can impact how we function in midlife, as can sociocultural factors, and how we develop in middle age can influence how well we cope in our later years. This book

explores these issues by bringing together a group of contributors associated with longitudinal studies.

2. Record Nr.	UNINA9911019678603321
Autore	Azzaroni Omar
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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Foreword -- Preface -- Chapter 1 2D Electronic Circuits for Sensing Applications -- 1.1 Introduction -- 1.2 Graphene Inductors -- 1.2.1 Modeling of Graphene Inductors -- 1.3 Graphene Capacitors -- 1.3.1 Modeling Graphene Capacitors -- 1.4 2D Material Transistors -- 1.4.1 Most Common Topologies for Transistors -- 1.4.2 Modeling of 2D Materials-Based Transistors -- 1.5 2D Material Diodes -- 1.5.1 Most Common Topologies -- 1.5.2 Modeling of 2D Materials-Based Diodes -- 1.6 Graphene Devices -- 1.6.1 Graphene Frequency Multipliers -- 1.6.2 Graphene Mixers -- 1.6.3 Graphene Oscillators -- 1.6.3.1 Ring Oscillators -- 1.6.3.2 LC Tank Oscillators -- 1.7 Conclusion -- References -- Chapter 2 Large Graphene Oxide for Sensing

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Sommario/riassunto

This book, edited by Omar Azzaroni and Wolfgang Knoll, explores the advanced applications of graphene field-effect transistors (FETs) in bioelectronic sensing devices. It covers a broad range of topics, including the modeling, fabrication, and application of graphene-based electronic components like inductors, capacitors, and diodes. Key focus areas include the use of graphene and its derivatives, such as graphene oxide and reduced graphene oxide, in biosensors for disease diagnostics, environmental monitoring, and health sensing. The book also discusses the mechanisms of graphene FETs operating in liquid environments, surface modification strategies for enhanced sensing capabilities, and hybrid graphene FETs for gas detection. Intended for researchers and professionals in the fields of materials science, electronics, and bioengineering, the book provides comprehensive insights into the potential of graphene technologies in developing innovative sensing solutions.
