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Volume I

Section 1
Fundamental Concepts and Design Methodologies

This section serves as a foundation for this exhaustive reference tool by addressing underlying principles essential to the understanding of oncology and provides in-depth coverage of conceptual architecture frameworks to provide the reader with a comprehensive understanding of the emerging developments within the field of oncology. With 9 chapters comprising this foundational section, the reader can learn and chose from a compendium of expert research on the elemental theories underscoring the oncology discipline. Research fundamentals imperative to the understanding of developmental processes within oncology are offered. Chapters found within these pages provide an excellent framework in which to position oncology within the field of information science and technology. From broad examinations to specific discussions on methodology, the research found within this section spans the discipline while offering detailed, specific discussions. From basic designs to abstract development, these chapters serve to expand the reaches of development and design technologies within the oncology community. Insight regarding the critical incorporation of global measures into oncology is addressed, while crucial stumbling blocks of this field are explored.

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Technologies and Applications

This section presents an extensive coverage of various tools and technologies available in the field of oncology and discusses a variety of applications and opportunities available that can be considered by practitioners in developing viable and effective oncology programs and processes. With 11 chapters, this section offers a broad treatment of some of the many tools and technologies within the oncology field. These chapters enlighten readers about fundamental research on the many tools facilitating the burgeoning field of oncology and review topics from case studies to best practices and ongoing research. Further chapters discuss oncology in a variety of settings. Contributions included in this section provide excellent coverage of today’s IT community and how research into oncology is impacting the social fabric of our present-day global village. It is through these rigorously researched chapters that the reader is provided with countless examples of the up-and-coming tools and technologies emerging from the field of oncology.

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