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Nota di contenuto	Intro -- Preface to the Second Edition -- Acknowledgments -- Contents -- 1: "Introduction: Biomedical Innovation and Policy in the Twenty-First Century" -- Liquid Biopsy -- Challenges and Incentives for Implementation -- Components of the Book -- References -- 2: "The Rise of Genomics and Personalized Medicine" -- Human Genome Project, Sequencing, and Genomic Medicine -- New Innovative Studies in NGS -- Sanger Sequencing and Comparison with NGS -- Single-Cell RNA Sequencing -- Single-Cell Epigenetic Analysis -- Application of Single-Cell Analysis in Precision Cancer Therapy -- Genomic Medicine -- Genomic Sequencing for Assessment of Disease -- Potential Challenges of Genomic Medicine -- ENCODE: Mapping the Functional Genome -- Pharmacogenetics: Pharmacogenomics -- Thiopurine-Methyltransferase (TPMT) -- CYP2D6 -- CYP2C9 -- UDP-Glucuronyltransferase -- HIV and Abacavir -- Targeted Panel Sequencing -- Genomics-Enabled Medicine for Cancer Prognosis -- The Emergence of Personalized Medicine -- Biomarker Discovery -- Tumor Mutational Burden (TMB) as a Biomarker -- Germline Considerations -- Conclusion -- References -- 3: "Patient Narratives: Personalized Medicine in the Field" -- The Population of 1 Trial: The Story of Milasen -- The Narratives of Personalized Medicine -- Social Media's Avenues for Personalized Medicine -- Social Media

for Patient Engagement -- Role of Twitter in Identifying Barriers to Care Among Patients with Metastatic Breast Cancer [6] -- The Narrative of Xin Zheng: A Lung Cancer Success Story -- References -- 4: Alliances: Knowledge Infrastructures, and the Digitization of Precision Health -- Precision Medicine: Its Potential Development and Implementation -- Implications of Precision Medicine for Patient Care and Disease Treatment -- Monitoring the Personal Genome -- Macroeconomic Considerations of Precision Medicine.

Global Alliance for Genomics and Health -- Updates to Global Alliance for Genomics and Health: GA4GH 2020 (Figs. 4.7, 4.8, 4.9, and 4.10) -- Systems Thinking and -Omics Technologies -- Data Portals and Data Analysis -- Bridging the Gap for Translational Genomic Research -- Database Efforts -- Genomics and Artificial Intelligence -- Deep Learning Methods in Precision Medicine -- Digital Precision Health: The History of Machine Learning and the Power of Big Data for Clinical Medicine -- Digital Pathology -- Conclusion -- References -- 5: "Great Strides in Precision Medicine: Personalized Oncology, Immunotherapies, and Molecular Diagnostics" -- An Immunotherapy Case Report -- A Target Therapy Case Report -- The Basis for Targeted Therapies: Acquired Mutations and Biomarkers in Cancers -- Oncogenesis -- Implications of Tumor Heterogeneity -- Enrichment and Adaptive Strategies -- Molecular Abnormalities in Solid Tumors -- Germline Molecular Testing for Hereditary Cancer Risk -- Cell Cycle Checkpoints -- Understanding Clinical Trials in the Era of Precision Oncology: Data, Biomarkers, and Diagnostic Testing -- Analysis -- Action -- N of 1 Trial -- Tumor Subtypes -- Breast Cancer -- Incidence and Mortality -- Inherited Breast Cancer -- Targeted Therapy Options in Breast Cancer Care -- Tyrosine Kinase Inhibitor: Tucatinib -- HER2+ /HER2-Positive Breast Cancer -- Triple-Negative Breast Cancer (TNBC) and Metastatic Breast Cancer (mBC) -- Biomarker Predicting Response to PARP Inhibitors -- "Study Supports Using MRD as a Stratification Variable for Patients with TNBC" -- "Unexpected Survival Benefit Reported With Trilaciclib in Metastatic Triple-Negative Breast Cancer" -- Olaparib -- Talazoparib -- Immunotherapy and Immunotherapy Combinations -- Newer Generation Targeted Therapy Agents -- Abemaciclib -- Other Combination Agents -- Recent Immunotherapies. Tecentriq -- Pembrolizumab -- Avelumab -- Liquid Biopsy in Breast Cancer: A Systematic Review -- Current Breast Cancer Diagnosis Standards -- Oncotype DX -- MammaPrint -- PAM50 (Prosigna) -- Genomic Grade Index (GGI) (Ipsogen) -- Veridex Rotterdam Signature 76 Genes -- Ventana HER2 Dual ISH DNA Probe Cocktail Assay for Detection of HER2 -- RSCLin TOOL: 21-Gene Recurrence Score (RS) -- HER2DX -- Signatera MRD Test -- Findings for Protein-Truncating and Missense Variants -- "Study Suggests 86-SNV Be Incorporated in Breast Cancer Risk Prediction Models" -- Conclusion -- Colorectal Cancer -- Incidence and Mortality -- Colorectal Cancer Classification Systems -- Molecular Pathology and Diagnosis of Colorectal Cancer -- "Molecular Testing in Metastatic Colorectal Cancer: Understanding How, When, and What to Profile" -- Inherited CRC Syndrome -- Hereditary Nonpolyposis Colorectal Carcinoma (Lynch Syndrome) -- Familial Adenomatous Polyposis -- De Novo Colorectal Cancer -- BRAF V600E -- Additional CRC Biomarkers and Mutations -- Targeted and Immunotherapies -- Bevacizumab -- Cetuximab -- Panitumumab -- Ramucirumab -- Ziv-aflibercept -- ASPECCT Trial [76] -- Immunotherapies for CRC: A Recent Development -- Immunotherapy for the Nonimmunogenic Tumors -- Liquid Biopsy -- Conclusion -- Melanoma -- Incidence and Mortality -- Targeted Therapies -- BRAF-V600E Inhibitors -- Immunotherapies for Melanoma -- Multicenter

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Key Genomic Differences Identified in the Prostate Cancer of African-American Men -- "Series of Studies Identify Genetic Risk Factors for Prostate Cancer" -- "17q22 Loss Associated With Survival in Enzalutamide-Resistant mCRPC" -- Racial Differences in Genomic Profiles of Primary and Metastatic Prostate Cancer -- "Study Finds Differences in BRCA1/2 Male Pathogenic Variant Carriers" -- Diagnostic Tests -- 4 k Score -- Prostate Health Index (PHI) -- Prostate Cancer Antigen 3 Assay (PCA3) -- SelectMDx -- ExoDx Prostate Intelliscore (EPI) -- ConfirmMDx -- Prognostic Tests -- Decipher (GC) -- Post-operative Radiation Therapy Outcomes Score -- Promark -- Prolaris -- OncotypeDx Genomic Prostate Score (GPS) -- Precision Imaging -- Conclusion -- Central Nervous System Tumors -- Incidence and Mortality -- Molecular Classification of Glioblastoma -- Diffuse Astrocytic and Oligodendroglial Tumors -- IDH-Mutated Astrocytomas -- Biomarkers and Targeted Therapies -- Tumor Immunology -- Subset of Glioblastoma Tumors Identified as Immunotherapy Candidate -- Meningiomas -- Hemangioblastomas -- Conclusion -- Hematological Malignancies -- Incidence and Mortality -- Hematologic Oncology Highlights 2019-2020 Almanac -- Chronic Myeloid Leukemia and Acute Lymphocytic Leukemia -- Study Finds Asciminib Safer and More Effective than TKI Bosutinib in Chronic Phase CML -- "Effects

of Stopping Tyrosine Kinase Inhibitor Treatment for Chronic Myeloid Leukemia: -- Focus on Molecular Response and Patient-Reported Outcomes" -- "First-Line Dasatinib Plus Blinatumomab for Adult Patients With Philadelphia Chromosome-Positive Acute Lymphoblastic Leukemia" -- Clinical Trials Investigating the Efficacy and Safety of the Novel CART Therapies UCART 19 and UCART22 in R/R B-Cell ALL -- "Chemotherapy Plus Blinatumomab for Philadelphia Chromosome-Negative B-Cell ALL".
"FDA Grants Fast Track Designation to Allogeneic CAR T-Cell Therapy for Advanced ALL".

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Nota di contenuto	I Introduction and fundamentals. Introduction -- Balance and boundary conditions -- Integral operators -- Forces and torques on surfaces -- Special solutions of balance conditions -- Weightless stress tensor fields -- II The general solution of balance and boundary conditions. Weightless stress tensor fields with boundary conditions -- The general solution of balance and boundary conditions -- Models and model selection. III Applications and examples. Land glaciers -- Floating

glaciers -- IV Appendix. Bibliography -- Explanation and list of symbols.

Sommario/riassunto

In this book, for the first time, a hitherto unknown general solution of the reliably known stress conditions is presented. This general solution forms a reliable and new starting point to get further in stress calculations than before. In this way, approximately realistic solutions can be found despite a recurring problem: the information deficits that are unavoidable due to the difficulty of exploring glaciers. This issue is demonstrated by the example of stagnating glaciers. For horizontally isotropic homogeneous tabular iceberg models, even mathematically exact unambiguous solutions of all relevant conditions are presented. All calculations use only elementary arithmetic operations, differentiations and integrations. The mathematical fundamentals are presented in detail and explained in many application examples. The integral operators specific to calculations of stresses facilitate the mathematical considerations. The stand-alone text allows the reader to understand what is involved even without considering the formulas. The author Peter Halfar is a theoretical physicist. He also developed a model of the movement of large ice caps (1983), which is still in use today. This book is a translation of an original German edition. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation.
