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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface of George P. Nassos -- Preface of Nikos Avlonas -- About the Companion Website -- Part I Introduction to Sustainability and ESG Concepts -- Chapter 1 Urgency to Adopt Sustainability -- Creation of the Environment -- Exceeding the Ecological Footprint -- The Limits to Growth -- Consumption Factor -- Conservation of Water -- The Depletion of Fossil Fuels -- Climate Change -- Population Growth -- The Environment's Big Four -- References -- Chapter 2 Development of the Sustainability Concept -- Sustainability and the Triple Bottom Line -- Advent of Corporate Social Responsibility (CSR) -- Along Came ESG (Environmental, Social, and Governance) -- The Sustainable Development Concept Thousands of Years Ago -- The Next Phase of Sustainability -- References -- Chapter 3 The Importance of ESG Criteria -- ESG Criteria -- Environmental Factors -- Social Factors -- Governance Factors -- References -- Chapter 4 Legislation Leading to Sustainability -- United States -- Clean Air Act (1970) -- Clean Water Act (1972) -- Endangered Species Act (1973) -- Corporate Average

Fuel Economy (CAFE) Standards (1975) -- Security Exchange Commission (SEC) Requirements -- International -- Montreal Protocol (1987) -- Kyoto Protocol (1997) -- Paris Agreement (2015) -- COP28 -- Going Forward -- References -- Part II Sustainable Strategies -- Chapter 5 Imbedding the UN Sustainable Development Goals to Achieve Sustainability -- UN 2030 Agenda -- The 17 Sustainable Development Goals -- A Further Look at the SDGs -- Emergent Technologies -- References -- Chapter 6 Addressing Climate Change -- Energy: Wind Turbines (Onshore) -- Energy: Solar Farms -- Energy: Nuclear Fission and Fusion -- Energy: Heat Pumps and Geothermal -- Materials: Refrigeration -- Materials: Alternative Cement -- Food: Reduced Food Waste.

Food: PlantRich Diet -- Women and Girls: Educating Girls and Family Planning -- Buildings and Cities: District Heating -- Buildings and Cities: Insulation -- Land Use: Tropical Forests -- Land Use: Temperate Forests -- Transport: Electric Vehicles -- Transport: Ships -- Top 20 Solutions -- Implement Ucapture -- Create Carbon Tax -- Net Zero Versus Absolute Zero -- Adaptation and Resilience -- References -- Chapter 7 The Natural Step -- The Four System Conditions for Sustainability -- System Condition 1-Substances from the Earth's Crust Must Not Systematically Increase in the Ecosphere -- System Condition 2-Substances Produced by Society Must Not Systematically Increase in the Ecosphere -- System Condition 3-The Physical Basis for Productivity and Diversity of Nature Must Not Be Systematically Diminished -- System Condition 4-There MUST Be Fair and Efficient Use of Resources with Respect to Meeting Human Needs -- Scientific Rationale for The Natural Step -- The Natural Step Projects -- Interface-The First Company to Adopt The Natural Step -- The challenge -- The result -- Nike -- The challenge -- The result -- Max Hamburgers -- The challenge -- The result -- The Circular Economy -- References -- Chapter 8 EcoEffective versus EcoEfficient -- Fuel Efficiency -- Computing Efficiency -- More Durable Brake Pads -- Increase Polymer Recycling -- Reduced Sewage Effluent -- More Efficient Clocks -- Cradle to Cradle -- Step 1-Get Free of Known Undesirable Substances -- Step 2-Follow Informed Personal Preferences -- Step 3-Creating a "PassivePositive" List -- Step 4-Activate the Positive List -- Step 5-Reinvention -- EcoEffective Versus EcoEfficient -- Do Not Take It To the Extreme -- References -- Chapter 9 Dematerialization-or-Servicizing -- Sell Illumination -- Sell a Painted Car -- Sell Floor Comfort and Aesthetics -- Sell Water Treatment Services.

More Servicizing Examples -- Castrol, Inc. -- Carrier -- Herman Miller (Coro) -- References -- Chapter 10 The Evolution of the Sharing Economy -- Generation Share -- Collaborative Consumption -- Class Final Projects -- Medication Delivery -- Refill Perfume Shop -- Luggage -- Homeimprovement Paint -- Nutrient Services -- Baby Mattresses -- SeatGoRound -- Bike Helmets -- Q Card for Better Transportation -- References -- Chapter 11 Adopting Systems Thinking-or-Tunneling -- System Elements -- System Interconnections -- System Function or Purpose -- Tunneling Through the Cost Barrier -- Interface Pipe Design -- Reducing Oil Imports -- Reducing Carbon Dioxide Emissions -- Illegal Immigration -- Sailboat Design -- Systems Thinking in Action -- Costco Wholesale and Organics -- Google and Renewable Energy -- Subaru and Zero Waste -- References -- Chapter 12 Environmental Innovation Through Biomimicry -- Abalone -- Spider Silk -- Bivalves -- Rhinoceros -- Fishinspired Travel -- Cheetahs -- Compact and Efficient Structure -- Ethanol -- Color from Structure Rather than Pigments -- Cricket Sounds -- Bioinspired LEDs -- Lessons from

Lavasa -- Owl Wings Inspire Wind Turbine Blade Design -- Shaving Razors Inspired by Frog and Cricket Legs -- Additional Technologies Inspired by Biomimicry -- Mindful Mining: A Proposal -- Introduction -- Business as Usual -- Business Unusual: Proposed Business Model -- References -- Chapter 13 Base of the Pyramid -- The Great Leap Downward -- Electrify the Bottom of the Pyramid -- Hindustan Lever and Nirma -- BOP Protocol -- Initiatives by the World Resources Institute -- Developing the Bottom of the Pyramid -- Is the Base of the Pyramid a Mirage? -- References -- Chapter 14 Environmentally Effective Buildings -- NetZero Energy Buildings -- LEED Project Certification Process -- LEED Accredited Professional. Living Building Challenge -- World's Greenest Building -- The WELL Building Standard -- BREEAM -- Passive House -- Other Building Certifications -- References -- Chapter 15 The Development of the Circular Economy -- Kalundborg Symbiosis -- Earlier Model -- Terracycle Introduces "Loop" -- Close the Loop -- Designing for the Circular Economy -- The Ellen Macarthur Foundation -- Quantity of Waste for the Circular Economy -- Personal Note -- References -- Chapter 16 The Circular Economy Through Energy Recovery -- Understanding Waste Management -- WastetoEnergy Systems -- Incineration -- Combined Heat and Power (Cogeneration) -- Combined Heat, Power, and Cooling (Trigeneration) -- Pyrolysis -- Gasification -- Anaerobic Digestion -- Waste to Sustainable Aviation Fuel -- The Challenges of WastetoEnergy Initiatives -- The Future of WastetoEnergy Initiatives -- References -- Chapter 17 Building Resilience to Climate Change -- Introduction -- Interconnectedness of Climate Risks in a Globalized World -- Case Study Example 1: The Syrian Drought -- Case Study Example 2: The 2011 Thai Floods -- Actionable Insight -- LargeScale Climatic Shifts -- Case Study Example 3: Managing Climate Risks Can Enhance License to Operate -- Actionable Insight -- Building Resilience -- Case Study Example 4: Extractives Sector Partners with Government and Communities to Fight Malaria in Mozambique -- Link to the Iceberg Model -- Using the Case Study with the Iceberg Model -- Actionable Insight -- The Strategy Development Process -- Actionable Insight -- Conclusion -- References -- Chapter 18 Emergent Technologies: Pioneering Sustainable Futures -- Technological Innovations Driving Sustainable Development -- Clean Water and Sanitation (SDG 6) -- Affordable and Clean Energy (SDG 7) -- Industry, Innovation, and Infrastructure (SDG 9) -- Case Studies: Successes and Challenges.

(SDG 1): Mobile Banking in SubSaharan Africa -- (SDG 2): Precision Agriculture Technologies in India -- SDG 3: Telemedicine in Rural China -- SDG 11: Sustainable Cities and Communities in Chinese Cities -- The Impact of Smart City Pilots on Clean Energy Development in Chinese Cities -- Impact of Digital Transformation on Resource Efficiency (SD12) -- Technologies and the Circular Economy (SDG 12 & 13) -- Policy Frameworks and Regulatory Considerations -- Strengthening Institutions (SDG 16) -- Governance and Transparency -- Legal and Regulatory Frameworks -- Fostering Partnerships (SDG 17) -- MultiStakeholder Collaboration -- International Cooperation -- Policy Recommendations for Enabling TechnologyDriven SDG Approaches -- Developing Inclusive Policies -- Technological Equity and Accessibility -- Challenges and Ethical Considerations -- Conclusion and Way Forward -- References -- Further Reading -- Chapter 19 More Sustainability Strategies and "Big Hairy Audacious Goal" -- Green Chemistry -- Nanotechnology -- "Big Hairy Audacious Goal" -- Washing Machines -- Toilets -- Urban Farming -- References -- Chapter 20 Sustainable Strategies and Beyond -- References -- Part

III Tools and Metrics -- Chapter 21 Standards and Guidelines for Managing Sustainability and ESG -- Need for a Sustainability and ESG Strategy -- Managing Sustainability and Standards -- Case Study: Unilever's Sustainable Strategy -- Global Reporting Initiative (GRI) and Stakeholders -- GRI Interpretations of Stakeholder Engagement -- The Stakeholder Reporting Process -- United Nations Sustainable Development Goals (UN SDGs) -- Case Study: General Motors-2022 Sustainability Report and Supplement -- Report Extract -- United Nations Sustainable Development Goals (UN SDGs) -- Sustainability Accounting Standards Board (SASB).
Task Force on Climate-related Financial Disclosures (TCFD).
