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Weight Distribution; 1.7.1 Average Molecular Weights; 1.7.2 Typical Distributions; 1.7.3 Problems; 1.8 Concentration Regimes; 1.8.1 Concentration Regimes for Linear Flexible Polymers; 1.8.2 Concentration Regimes for Rodlike Molecules; 1.8.3 Problems; 2 Thermodynamics of Dilute Polymer Solutions; 2.1 Polymer Solutions and Thermodynamics; 2.2 Flory-Huggins Mean-Field Theory; 2.2.1 Model
2.2.2 Free Energy, Chemical Potentials, and Osmotic Pressure2.2.3 Dilute Solutions; 2.2.4 Coexistence Curve and Stability; 2.2.5 Polydisperse Polymer; 2.2.6 Problems; 2.3 Phase Diagram and Theta Solutions; 2.3.1 Phase Diagram; 2.3.2 Theta Solutions; 2.3.3 Coil-Globule Transition; 2.3.4 Solubility Parameter; 2.3.5 Problems; 2.4 Static Light Scattering; 2.4.1 Sample Geometry in Light-Scattering Measurements; 2.4.2 Scattering by a Small Particle; 2.4.3 Scattering by a Polymer Chain; 2.4.4 Scattering by Many Polymer Chains; 2.4.5 Correlation Function and Structure Factor
2.4.6 Structure Factor of a Polymer Chain2.4.7 Light Scattering of a Polymer Solution; 2.4.8 Other Scattering Techniques; 2.4.9 Problems; 2.5 Size Exclusion Chromatography and Confinement; 2.5.1 Separation System; 2.5.2 Plate Theory; 2.5.3 Partitioning of Polymer with a Pore; 2.5.4 Calibration of SEC; 2.5.5 SEC With an On-Line Light-Scattering Detector; 2.5.6 Problems; APPENDICES; 2.A: Review of Thermodynamics for Colligative Properties in Nonideal Solutions; 2.B: Another Approach to Thermodynamics of Polymer Solutions; 2.C: Correlation Function of a Gaussian Chain
3 Dynamics of Dilute Polymer Solutions3.1 Dynamics of Polymer Solutions; 3.2 Dynamic Light Scattering and Diffusion of Polymers; 3.2.1 Measurement System and Autocorrelation Function; 3.2.2 Autocorrelation Function; 3.2.3 Dynamic Structure Factor of Suspended Particles; 3.2.4 Diffusion of Particles; 3.2.5 Diffusion and DLS; 3.2.6 Dynamic Structure Factor of a Polymer Solution; 3.2.7 Hydrodynamic Radius; 3.2.8 Particle Sizing; 3.2.9 Diffusion From Equation of Motion; 3.2.10 Diffusion as Kinetics; 3.2.11 Concentration Effect on Diffusion; 3.2.12 Diffusion in a Nonuniform System; 3.2.13 Problems
3.3 Viscosity

Sommario/riassunto

Polymer Solutions: An Introduction to Physical Properties offers a fresh, inclusive approach to teaching the fundamentals of physical polymer science. Students, instructors, and professionals in polymer chemistry, analytical chemistry, organic chemistry, engineering, materials, and textiles will find Iwao Teraoka's text at once accessible and highly detailed in its treatment of the properties of polymers in the solution phase. Teraoka's purpose in writing Polymer Solutions is twofold: to familiarize the advanced undergraduate and beginning graduate student with basic concepts, theories, mode

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Nota di contenuto	Cover -- Series Page -- Title Page -- Copyright Page -- Contents -- Preface -- Chapter 1 Industry 4.0 and the AI/ML Era: Revolutionizing Manufacturing -- 1.1 Introduction -- 1.1.1 Key Traits of Industry 4.0 -- 1.2 Literature Survey -- 1.2.1 Foundations of Industry 4.0 -- 1.2.2 Integration of AI and ML -- 1.2.3 Smart Automation and Human-Robotic Collaboration -- 1.2.4 Cognitive Manufacturing -- 1.2.5 Disturbing Situations and Opportunities -- 1.3 The AI/ML Era Within the Industrial Revolution -- 1.3.1 The Role of AI and ML -- 1.3.2 Opportunities -- 1.4 The Nexus of Industry 4.0 and the AI/ML Era: A Symbiotic Evolution -- 1.5 Challenges and Opportunities in the Integration of Industry 4.0 and the AI/ML Era -- 1.6 Implementation Techniques -- 1.6.1 Future Suggestions -- 1.7 Conclusion -- References -- Chapter 2 Business Intelligence and Big Data Analytics for Industry 4.0 -- 2.1 Introduction -- 2.1.1 The Biggest Challenge of Industry 4.0 -- 2.2 Literature Review -- 2.3 Business Intelligence -- 2.3.1 Challenges of Business Intelligence in Industry 4.0 -- 2.4 Big Data Analytics -- 2.4.1 Five Pillars of Big Data -- 2.4.2 Big Data to the

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3.3.4 NLP - Natural Language Processing -- 3.4 Genetics and Machine Learning for Understanding and Prediction of Complicated Illnesses -- 3.5 AI-Driven Virtual Healthcare Support for Patient Care -- 3.6 AI's Advantages for Mental Health Treatment -- 3.7 AI's Predictive Capabilities: Revolutionizing Mental Health Treatment -- 3.8 AI's Limitations and Research on Mental Health -- 3.9 Ethical Issues and Difficulties with AI-Powered Mental Health -- 3.10 Healthcare AI Governance -- 3.11 Artificial Intelligence in Augmented and Virtual Reality (AR &amp -- VR) -- 3.12 Methodology -- 3.13 Results and Discussions -- 3.13.1 Synopsis of AI Research in Mental Health -- 3.13.2 AI-Driven Intervention as the Future of Mental Healthcare -- 3.14 Conclusion -- References -- Chapter 4 AI ML Empowered Smart Buildings and Factories -- 4.1 Introduction -- 4.1.1 An Account of How Machine Learning Contributes to Task Automation -- 4.1.2 A Description of How Mobile Phones and Computers Facilitate the Completion of Tasks in Intelligent Buildings -- 4.1.3 Intelligent Buildings as well as IoT -- 4.1.4 Utilizing the Ubiquitous Internet of Things Plus the Global Web to Link Buildings -- 4.2 The Advancement of Computational Intelligence within Smart Building Technology and Its Worldwide Consequences -- 4.2.1 Industrial 4.0 Along with IoT -- 4.2.2 An Exploration of the Web of Things and Its Role in Making 4.0 -- 4.3 An Examination on ML, DL and AI Algorithms Used for Engineering and Construction -- 4.3.1 Utilization in Intelligent Structures -- 4.3.2 A Few Examples of the Numerous Uses in Smart Buildings are Automation, Material Efficiency, Off-Site Production, Designing Buildings, and the Combination of Big Data -- 4.3.3 Detectors, and Computational AI Enabling Intelligent Management and Energy Efficiency -- 4.4 Conclusion.
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R eferences.

Sommario/riassunto

This book is essential for any leader seeking to understand how to leverage intelligent automation and predictive maintenance to drive innovation, enhance productivity, and minimize downtime in their manufacturing processes. Intelligent automation is widely considered to have the greatest potential for Industry 4.0 innovations for corporations. Industrial machinery is increasingly being upgraded to intelligent machines that can perceive, act, evolve, and interact in an industrial environment. The innovative technologies featured in this machinery include the Internet of Things, cyber-physical systems, and artificial intelligence. Artificial intelligence enables computer systems to learn from experience, adapt to new input data, and perform intelligent tasks. The significance of AI is not found in its computational models, but in how humans can use them. Consistently observing equipment to keep it from malfunctioning is the procedure of predictive maintenance. Predictive maintenance includes a periodic maintenance schedule and anticipates equipment failure rather than responding to equipment problems. Currently, the industry is struggling to adopt a viable and trustworthy predictive maintenance plan for machinery. The goal of predictive maintenance is to reduce the amount of unanticipated downtime that a machine experiences due to a failure in a highly automated manufacturing line. In recent years, manufacturing across the globe has increasingly embraced the Industry 4.0 concept. Greater solutions than those offered by conventional maintenance are promised by machine learning, revealing precisely how AI and machine learning-based models are growing more prevalent in numerous industries for intelligent performance and greater productivity. This book emphasizes technological developments that could have great influence on an industrial revolution and introduces the fundamental technologies responsible for directing the development of innovative firms. Decision-making requires a vast intake of data and customization in the manufacturing process, which managers and machines both deal with on a regular basis. One of the biggest issues in this field is the capacity to foresee when maintenance of assets is necessary. Leaders in the sector will have to make careful decisions about how, when, and where to employ these technologies. Artificial Intelligence and Machine Learning for Industry 4.0offers contemporary technological advancements in AI and machine learning from an Industry 4.0 perspective, looking at their prospects, obstacles, and potential applications.

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Worldwide -- Farewell to the Demographic Dividend -- Too Old to Save? -- Higher Income, Greater Saving -- Lower-Income Savers: Little to Show for their Efforts -- The Bottom Line -- Notes -- 3 Financial Systems to Make Savings Count -- In Financial Systems, Small Is Not Beautiful -- Formal vs. Informal Saving: Quality Counts -- Accounting for the Unbanked -- The Link between Financial Access and Savings: The Case of Mexico -- The Missing Link -- Notes -- 4 More and Better Saving for Productive Investment -- Investment and National Saving: Low, Lower, Lowest -- Financing Investment: No Place Like Home -- For Policy, Which Comes First: Saving or Investment? -- Investment in Infrastructure: First among Equals? -- A Catalyst for Productivity and Growth -- Public or Private Investment: Both Is Best -- The Other Half -- Understanding the Infrastructure Financing Market -- Debt Stands Out -- Infrastructure as an Asset Class -- Institutional Investors: An Untapped Source of Financing -- Building a Better Investment Strategy -- Notes -- 5 Saving for Stability.
Foreign Financing: A Different Animal -- Risky Business: Absorbing Foreign Saving -- Not All Foreign Saving Is Created Equal -- Different Risks for Different Financial Flows -- Financial Integration Is No Cure -- Safety First -- Notes -- 6 Running Out of Time: The Demographics of Saving -- More Elderly with More Needs -- Facing the Challenge: More and Better Savings -- Fulfilling Promises -- Saving for the Future -- More-and Better-Savings to Enhance Growth -- How Is the Region Preparing for the Future? -- Pension Systems: Not an Option Today -- Plan B: Household Savings in Other Assets -- The Last Resort: Taking Care of Grandma -- Act Today, for a Better Tomorrow -- Notes -- 7 Saving for the Future: Pension Systems -- Newer Systems for Older Populations -- PAYG/Defined-Benefit Systems: Promises, Promises -- Sustainability -- Adequacy and Redistribution -- Institutional Arrangements -- Recommendations -- Defined Contribution Systems: A Work in Progress -- Transition Costs -- Investments, Returns, and Costs -- Retirement Products and Insurance Arrangements -- Financial Literacy, Legitimacy, and Confidence -- Appropriate Regulation and Supervision -- Recommendations -- When All Else Fails: Noncontributory Pensions -- Recommendations -- Pensions Count -- Notes -- 8 A Better Way for Government to Save -- Current vs. Capital Expenditures: Fix the Mix -- Efficiency: A Path to Saving -- Energy -- Social Programs -- Tax Expenditures -- Education and Health -- Education -- Health -- It All Adds Up -- Saving, from the Top Down -- Notes -- 9 Saving Begins at Home -- Constraints to Saving -- Too Hard to Save Formally? -- In the Hearts and Minds of Savers -- Family and Friends First -- A Behavioral Economics Tale -- The Penchant for Instant Gratification -- Inertia and Limited Attention: Not All Bad -- Policy Recommendations: What Really Counts.
Product Innovation -- Keep It Simple -- Tackle Behavioral Biases -- Incorporate Technology -- Keep Testing -- Bridging the Gap between Informal and Formal Mechanisms -- Getting an Early Start -- Redefining Financial Inclusion -- Notes -- 10 Firm Productivity as an Engine of Saving -- From Japan to the World: The Empirical Link between TFP and Savings -- Incentives to Save -- Quantifying the Link from Productivity to Saving -- The Fine Print -- Zooming in on Firms' Saving Decisions -- Firm Saving: A Way Out for Productive Firms -- A Productive Approach to Policy -- Notes -- 11 Breaking the Vicious Circle: Financial Policies for High-Quality Saving -- Toward a Well-Oiled Financial Machine -- Broadening the Base -- Reducing Service Costs -- Keeping it Simple -- Fostering a Culture of Saving -- Banking-The Old Fashioned Way -- More than Brick-and-Mortar Banking -- Dialing up Technology -- Financial Saving beyond Banking

	-- Creating a Virtuous Circle -- Notes -- References -- Index.
Sommario/riassunto	Why should people - and economies - save? This book on the savings problem in Latin America and the Caribbean suggests that, while saving to survive the bad times is important, saving to thrive in the good times is what really counts. People must save to invest in health and education, live productive and fulfilling lives, and make the most of their retirement years. Firms must save to grow their enterprises, employ more workers in better jobs, and produce quality goods. Governments must save to build the infrastructure required by a productive economy, provide quality services to their citizens, and assure their senior citizens a dignified, worry-free retirement. In short, countries must save not for the proverbial rainy day, but for a sunny day - a time when everyone can bask in the benefits of growth, prosperity, and well-being.