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Titolo	SCOTUS 2024 : Major Decisions and Developments of the US Supreme Court / / edited by Howard Schweber
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ISBN	9783031785511 3031785517
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Descrizione fisica	1 online resource (173 pages)
Altri autori (Persone)	Schweber
Disciplina	347.7326
Soggetti	America - Politics and government Constitutional law Political science American Politics Constitutional Law Governance and Government Political Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Introduction -- Chapter 2: Trump v Anderson -- Chapter 3: Trump v United States -- Chapter 4: FDA v Alliance for Hippocratic Medicine -- Chapter 5: Moyle v United States -- Chapter 6: Consumer Finance Protection Bureau v Community Financial Services Assn -- Chapter 7: SEC v Jarkesi -- Chapter 8: Loper Bright Enterprises v Raimando -- Chapter 9: Ohio v. EPA -- Chapter 10: Moody v Netchoice, LLC -- Chapter 11: Murthy v Missouri -- Chapter 12: NRA v Vullo -- Chapter 13: Lindke v Freed -- Chapter 14: United States v Rahimi -- Chapter 15: Alexander v South Carolina NAACP -- Chapter 16: City of Grants Pass v Johnson.
Sommario/riassunto	Each year, the Supreme Court of the United States announces new rulings with deep consequences for our lives. This seventh volume in Palgrave's SCOTUS Decisions series explains and contextualizes the landmark cases of the US Supreme Court in the term ending 2024. With a close look at cases involving key issues and debates in American

	politics and society, SCOTUS 2024 tackles the Court's rulings on ballot access, executive immunity, access to mifepristone, funding of the Consumer Financial Protection Bureau, the Equal Protection clause and state redistricting, the Securities and Exchange Commission's ability to levy civil penalties, the power of federal agencies to interpret the laws they administer, the the Environmental Protection Agency's ability to reduce air pollution from power plants, and more. Written by notable scholars in political science and law, the chapters in SCOTUS 2024 present the details of each ruling, its meaning for constitutional debate, and its impact on public policy or partisan politics. Finally, SCOTUS 2024 analyzes ethics scandals on the Court and charts its shifts in ideology. Howard Schweber is Professor Emeritus of Political Science and an affiliate faculty member of the Law School at the University of Wisconsin-Madison. He is the author or editor of six books and the editor of Constitutional Studies.

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Titolo	Continuum scale simulation of engineering materials : fundamentals, microstructures, process applications / / edited by Dierk Raabe ... [et al.]
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Descrizione fisica	1 online resource (889 p.)
Altri autori (Persone)	RaabeDierk
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Continuum Scale Simulation of Engineering Materials; Contents; Preface; List of Contributors; I Fundamentals and Basic Methods; 1 Computer Simulation of Diffusion Controlled Phase Transformations; 1.1 Introduction; 1.2 Numerical Treatment of Diffusion Controlled Transformations; 1.2.1 Diffusion; 1.2.2 Boundary Conditions; 1.2.3 Cell Size; 1.3 Typical Applications; 1.3.1 LE, LENP and PE in Fe-Mn-C; 1.3.2 LE, LENP and PE in Fe-Si-C; 1.3.3 PE in Fe-Ni-C; 1.3.4 Effect of Traces on the Growth of Grain Boundary Cementite; 1.3.5 Continuous Cooling 1.3.6 Competitive Growth of Phases: Multi-Cell Calculations1.3.7 Gas-Metal-Reactions: Carburization; 1.4 Outlook; References; 2 Introduction to the Phase-Field Method of Microstructure Evolution; 2.1 Introduction; 2.2 Origin of the Model; 2.3 Theoretical Fundamentals of the Method; 2.3.1 Representation of a Microstructure; 2.3.2 Thermodynamics of Microstructures; 2.3.3 The Evolution Equations; 2.4 Advantages and Disadvantages of the Method; 2.5 Typical Fields of Applications and Examples; 2.6 Summary and Opportunities; References; 3 Cellular, Lattice Gas, and Boltzmann Automata 3.1 Cellular Automata3.1.1 Introduction; 3.1.2 Formal Description and Classes of Cellular Automata; 3.1.3 Cellular Automata in Materials Science; 3.1.4 Recrystallization Simulations with Cellular Automata; 3.2 Cellular Automata for Fluid Dynamics; 3.2.1 Introduction; 3.2.2 The HPP and FHP Lattice Gas Cellular Automata; 3.2.3 The Lattice Boltzmann Automaton; 3.3 Conclusions and Outlook; References; 4 The Monte Carlo Method; 4.1 Introduction; 4.2 History of the Monte Carlo Method; 4.2.1 Ising and Potts Models; 4.2.2 Metropolis Algorithm; 4.2.3 n-fold Way Algorithm 4.3 Description of the Monte Carlo Method for Grain Growth & Recrystallization4.3.1 Discretization of Microstructure; 4.3.2 Evolution of the Microstructure; 4.3.3 Inert Particles; 4.3.4 Lattices; 4.3.5 Boundary Conditions; 4.3.6 Parallelization of the Monte Carlo Algorithm; 4.4 Nucleation in Recrystallization; 4.5 Initialization of MC Simulations; 4.6 Verification of the Monte Carlo Model; 4.7 Scaling of Simulated Grain Size to Physical Grain Size; 4.8 Recrystallization Kinetics in the Monte Carlo model; 4.9 Results of Simulation of Recrystallization by Monte Carlo Method 4.9.1 Abnormal Grain Growth4.9.2 Static Recrystallization; 4.9.3 Grain Growth in the Presence of Particles; 4.9.4 Recrystallization in the Presence of Particles; 4.9.5 Texture Development; 4.9.6 Texture; 4.9.7 Dynamic Recrystallization; 4.10 Summary; References; 5 Crystal Plasticity; 5.1 Introduction; 5.2 Theoretical Background; 5.2.1 Mechanical Response of Single Crystals; 5.2.2 Lattice Orientation Distributions for Polycrystals; 5.2.3 Mechanical Response of Polycrystals; 5.3 Macroscopic Criteria for Anisotropic Strength; 5.3.1 Generalities; 5.3.2 Yield Surfaces Defined by Expansions 5.3.3 Yield Surfaces Defined by Hyperplanes
Sommario/riassunto	This book fills a gap by presenting our current knowledge and understanding of continuum-based concepts behind computational methods used for microstructure and process simulation of engineering materials above the atomic scale. The volume provides an excellent overview on the different methods, comparing the different methods in terms of their respective particular weaknesses and advantages. This trains readers to identify appropriate approaches to the new challenges that emerge every day in this exciting domain. Divided into three main parts, the first is a basic overview covering fu