

public law and political theory Document

Public law and political theory form the foundational pillars of understanding how governments function, how power is distributed, and how rights and responsibilities are maintained within societies. These disciplines intersect to analyze the structures, principles, and philosophies that underpin the relationship between the state and its citizens. As societies evolve and political landscapes shift, the study of public law and political theory becomes increasingly vital for crafting equitable, effective, and legitimate governance frameworks. This article explores the core concepts, historical development, key theories, and contemporary debates surrounding public law and political theory, highlighting their interconnectedness and significance in shaping modern political systems.

Understanding Public Law

Definition and Scope of Public Law

Public law refers to the body of law that governs the relationship between individuals and the state, as well as the structure and operation of government institutions. It establishes the boundaries of governmental power and ensures the rule of law, safeguarding individual rights against arbitrary actions by the state.

Key areas within public law include:

- Constitutional Law
- Administrative Law
- Criminal Law
- International Public Law

Constitutional Law

Constitutional law forms the backbone of public law, outlining the fundamental principles that define the organization of government. It determines the division of powers among different branches (executive, legislative, judiciary) and protects fundamental rights.

Major themes include:

- Separation of powers
- Federalism

- Judicial review
- Fundamental rights and liberties

Administrative Law

Administrative law governs the actions of administrative agencies and ensures that they act within the law, maintain fairness, and adhere to principles of justice. It provides mechanisms for oversight, accountability, and redress.

Typical areas include:

- Rulemaking and enforcement
- Adjudication
- Administrative procedures and appeals

Criminal Law

Criminal law defines conduct that is prohibited by the state and prescribes punishments for offenders. It reflects societal values and aims to maintain order.

Key features:

- Definition of crimes
- Punishments and sanctions
- Due process rights

Political Theory and Its Foundations

Definition and Significance of Political Theory

Political theory involves the study of ideas and principles that underpin political systems, practices, and ideologies. It seeks to understand political concepts such as justice, liberty, equality, authority, and power, shaping the development of political institutions and policies.

Its significance includes:

- Providing normative frameworks for governance
- Analyzing political ideologies and movements

- Critiquing existing political structures

Historical Development of Political Theory

The evolution of political theory can be broadly categorized into classical, modern, and contemporary phases:

- Classical Political Theory
 - Thinkers like Plato, Aristotle, Cicero
 - Focus on justice, virtue, and the ideal state
- Modern Political Theory
 - Machiavelli, Hobbes, Locke, Rousseau
 - Emphasis on social contract, sovereignty, and rights
- Contemporary Political Theory
 - Marx, Weber, Foucault, Rawls
 - Focus on power dynamics, equality, and justice in diverse contexts

Core Concepts in Political Theory

Understanding the core concepts helps clarify debates and guide policy development:

- Liberty: The degree of freedom individuals have within a society.
- Equality: Ensuring fair treatment and access to resources.
- Justice: Fairness in the distribution of benefits and burdens.
- Authority and Power: The legitimate use of power and its limits.
- Legitimacy: The recognized right to rule and make decisions.

Interconnection Between Public Law and Political Theory

Normative Foundations of Public Law

Public law draws heavily on political theoretical principles to justify and critique legal frameworks. For example, the concept of constitutionalism is rooted in ideas of limited government and the rule of law—a product of political philosophy emphasizing individual rights and checks on power.

Legal Structures and Political Ideologies

Different political ideologies influence the development of legal institutions:

- Liberalism advocates for individual rights and limited government.
- Conservatism emphasizes stability and tradition.
- Socialism promotes equality and state intervention.
- Libertarianism champions maximum personal freedom.

Case Studies Highlighting the Intersection

- The U.S. Constitution and Liberal Democracy: Embodying principles of liberty, equality, and checks and balances.
- The European Union Legal Framework: Reflecting supranational governance influenced by democratic and social theories.
- South Africa's Post-Apartheid Constitution: Incorporating principles of justice, equality, and reconciliation rooted in political philosophy.

Contemporary Debates in Public Law and Political Theory

Human Rights and Sovereignty

The tension between respecting state sovereignty and protecting universal human rights remains central. Critics argue that international human rights law can infringe on national sovereignty, while advocates see it as essential for global justice.

Judicial Activism vs. Judicial Restraint

Debates about the role of courts in shaping policy:

- Judicial activism involves courts taking an active role in policy-making.
- Judicial restraint emphasizes deference to elected branches.

Democracy and Legitimacy

Questions about how best to ensure legitimate governance:

- Should the focus be on direct participation or representative institutions?
- How to balance majority rule with minority rights?

Equality and Social Justice

Contemporary issues include:

- Distribution of resources
- Affirmative action
- Rights of marginalized groups

Key Thinkers and Their Contributions

John Locke

- Advocated for natural rights and government by consent.
- Influenced liberal constitutionalism.

Karl Marx

- Analyzed class struggle and the role of economic power.
- Critiqued capitalism and promoted social equality.

John Rawls

- Proposed theories of justice based on fairness.
- Emphasized the "original position" and the veil of ignorance.

Friedrich Hayek

- Championed free markets and limited government.

- Warned against central planning and excessive state intervention.

Future Directions in Public Law and Political Theory

Emerging Challenges

- Digital governance and privacy rights
- Climate change and environmental law
- Global justice and transnational institutions
- Populism and democratic backsliding

Interdisciplinary Approaches

- Combining insights from law, political science, philosophy, and sociology.
- Emphasizing participatory democracy and inclusive policymaking.

Promoting Justice in a Complex World

Efforts to develop frameworks that address:

- Inequality
- Marginalization
- Rights in a digital age

Conclusion

Public law and political theory are intrinsically linked, shaping the foundation and evolution of governance and societal values. By examining legal structures through the lens of political philosophy, societies can better understand the principles guiding their institutions and address contemporary challenges with informed, equitable solutions. As the world becomes more interconnected and complex, ongoing dialogue between these disciplines remains essential to fostering just, democratic, and resilient political systems.

Keywords: public law, political theory, constitutional law, administrative law, justice, liberty, equality, legitimacy, sovereignty, human rights, judicial activism, democracy, political philosophy, legal institutions, social justice, future challenges

Public Law and Political Theory: An In-Depth Exploration

Public law and political theory are intertwined fields that collectively shape the foundation of modern governance, legal systems, and societal organization. Their interplay influences how states function, how rights are protected, and how justice is conceptualized within a political and legal framework. This comprehensive review delves into the core concepts, historical developments, key theories, and contemporary debates surrounding public law and political theory.

Understanding Public Law

Public law serves as the legal backbone of the relationship between the state and individuals, as well as among different branches of government. It provides the framework within which governance operates, ensuring legality, accountability, and the protection of fundamental rights.

Definition and Scope

Public law encompasses:

- Constitutional Law: Governs the structure and functioning of the state, the distribution of powers, and the protection of fundamental rights.
- Administrative Law: Regulates the actions of governmental agencies and ensures they act within the law.
- Criminal Law: Defines offenses against the state and prescribes penalties.
- International Public Law: Addresses the legal relations between states and international organizations.

Core Principles of Public Law

- Supremacy of the Constitution: The constitution is the supreme legal authority, guiding all other laws.
- Separation of Powers: Dividing government authority among legislative, executive, and judiciary branches to prevent abuse.
- Rule of Law: All individuals and institutions are subject to and accountable under the law.
- Protection of Fundamental Rights: Safeguarding individual freedoms against state overreach.
- Legal Accountability and Judicial Review: Courts have the power to review and invalidate laws or executive actions that conflict with constitutional principles.

Functions of Public Law

- Maintaining constitutional order

- Ensuring accountability and checks and balances
- Protecting civil liberties
- Regulating public administration and policy implementation

Foundations of Political Theory

Political theory provides the normative and philosophical underpinnings of how societies organize themselves, how power is distributed, and what constitutes justice and legitimacy.

Historical Development

- Ancient Political Philosophy: Thinkers like Plato and Aristotle laid the groundwork for ideas about justice, the good life, and the role of the state.
- Medieval Political Thought: Emphasis on divine authority and the relationship between church and state.
- Modern Political Philosophy: Focused on individual rights, social contract theories, and the nature of sovereignty, with figures like Hobbes, Locke, and Rousseau.
- Contemporary Political Theory: Explores issues like democracy, multiculturalism, feminism, and post-colonialism.

Major Theoretical Perspectives

- Liberalism: Emphasizes individual rights, liberty, and limited government.
- Conservatism: Prioritizes social stability, tradition, and established institutions.
- Socialism: Advocates for economic equality and collective ownership.
- Communitarianism: Focuses on community values and social cohesion.
- Libertarianism: Stresses individual freedom and minimal state interference.

Key Concepts in Political Theory

- Justice: Fair distribution of resources and opportunities.
- Legitimacy: The right of authority to govern.
- Authority and Power: The capacity to enforce obedience.
- Sovereignty: Supreme authority within a territory.
- Freedom and Equality: Fundamental principles shaping governance and societal arrangements.

The Interplay Between Public Law and Political Theory

The relationship between public law and political theory is dynamic and symbiotic. While public law provides the legal structures and frameworks, political theory offers the normative principles that justify or critique these structures.

Legal Positivism vs. Natural Law

- Legal Positivism: Asserts that law is a set of rules created by human authorities, with legitimacy derived from procedural correctness rather than moral considerations.
- Natural Law: Argues that law should reflect moral principles inherent in human nature; laws contrary to natural law are unjust.

Implication for Public Law:

- Positivists focus on the legality of laws regardless of morality.
- Natural law advocates emphasize the importance of moral legitimacy in law, influencing constitutional protections and human rights.

Constitutionalism and Democratic Legitimacy

- The idea that constitutions should limit state power and be rooted in the will of the people.
- Political theories of democracy inform public law reforms aimed at enhancing participation, accountability, and representation.

Judicial Review and Democratic Theory

- Judicial review acts as a guardian of constitutional principles but raises debates about the tension between judicial activism and democratic legitimacy.
- Theories of deliberative democracy argue for courts to uphold not just legality but substantive justice reflecting societal values.

Contemporary Debates and Challenges

Both public law and political theory face pressing contemporary issues that challenge traditional frameworks and demand innovative approaches.

Human Rights and Global Justice

- The rise of international human rights law reflects a normative shift towards universal protections.
- Debates revolve around the balance between national sovereignty and international obligations.

Populism and Judicial Independence

- The surge of populist movements questions the independence of the judiciary.
- The tension between majoritarian politics and constitutional protections of minority rights is central here.

Technology and Digital Governance

- Digital surveillance, data privacy, and algorithmic decision-making pose new legal and normative questions.
- Political theories of democracy must adapt to challenges posed by social media and digital participation.

Environmental Law and Justice

- Climate change necessitates legal frameworks for sustainability.
- Political theories emphasizing intergenerational justice and global responsibility influence environmental policies.

Key Thinkers and Their Contributions

- John Locke: Emphasized natural rights, the social contract, and limited government foundations for liberal constitutionalism.
- Thomas Hobbes: Advocated for strong sovereign authority to prevent chaos.
- Jean-Jacques Rousseau: Focused on the general will and direct democracy.
- John Rawls: Developed theories of justice and fairness, emphasizing equality and the veil of ignorance.
- Robert Nozick: Critiqued distributive justice, favoring individual rights over patterned distributions.

Future Directions in Public Law and Political Theory

As societies evolve, so do the challenges and opportunities for public law and political theory.

Emerging areas of interest include:

- Transnational Governance: Addressing global issues beyond state borders.
- Digital Rights and Liberties: Protecting individual freedoms in a digital age.
- Inclusive Democracy: Ensuring marginalized voices are represented.
- Legal Pluralism: Recognizing multiple legal systems within a single political entity.
- Postcolonial and Critical Perspectives: Challenging dominant narratives and promoting social justice.

Conclusion

Public law and political theory are vital disciplines that shape the legal and political contours of societies. Their integration ensures that laws are not only legally valid but also morally and ethically justified, fostering just, equitable, and resilient governance. As contemporary challenges grow in complexity—from technological advances to environmental crises—the ongoing dialogue between legal frameworks and normative political principles remains essential for fostering democratic legitimacy, protecting rights, and ensuring justice for all.

In essence, understanding public law and political theory equips us with the tools to critically analyze and participate in the governance of our societies, ensuring that power is exercised responsibly and rights are upheld in pursuit of the common good.

Question How does public law influence the development of political theory? Public law shapes political theory by establishing the legal frameworks and institutions that define the powers and limits of government, thus influencing ideas about sovereignty, authority, and the rights of citizens. What is the role of constitutional law in democratic governance? Constitutional law provides the fundamental principles and structures that uphold democratic governance, ensuring the separation of powers, safeguarding individual rights, and establishing the rule of law. How do theories of justice inform public law policies? Theories of justice, such as distributive or procedural justice, guide the design of public policies by emphasizing fairness, equality, and fairness in resource distribution and decision-making processes. What are the contemporary debates surrounding sovereignty in public law? Current debates focus on the limits of sovereignty in the context of globalization, supranational organizations, and human rights, questioning how sovereign powers are exercised and constrained in a interconnected world. How does public law address issues of state accountability and transparency? Public law establishes mechanisms such as judicial review, administrative procedures, and human rights protections to ensure state accountability and promote transparency in government actions. In what ways does political theory critique or support the concept of the rule of law? Political theory both defends the rule of law as essential for justice and stability, and critiques it when it is used to justify inequality or suppress dissent, leading to ongoing debates about its implementation and limits. How does public law intersect with theories of

democracy and citizen participation? Public law provides the legal structures that enable citizen participation, protect democratic processes, and ensure that government actions reflect the will of the people, thereby reinforcing democratic legitimacy.

Related keywords: constitutional law, governance, political philosophy, rule of law, democratic theory, legal systems, state sovereignty, civil liberties, political ethics, constitutionalism

An introduction to ergodic theory graduate texts i

An introduction to ergodic theory graduate texts i serves as a foundational guide for graduate students venturing into this fascinating branch of mathematics. Ergodic theory, at its core, explores the long-term average behavior of dynamical systems and their statistical properties. It has profound applications across mathematics, physics, and even in fields like economics and computer science. For students beginning their journey, selecting the right graduate texts is crucial for building a solid understanding, developing intuition, and engaging with current research directions. This article aims to provide a comprehensive overview of essential ergodic theory texts, their key features, and how they can serve as effective learning tools.

Understanding the Foundations of Ergodic Theory

Before diving into specific texts, it's important to understand what ergodic theory encompasses and why it's a vital area of study. This section offers a brief overview of the fundamental concepts and the scope of graduate-level texts.

What is Ergodic Theory?

Ergodic theory studies the behavior of measure-preserving transformations on probability spaces. Essentially, it addresses questions like: How do points in a dynamical system distribute over time? Do the time averages of functions along trajectories converge to space averages? These questions are rooted in the ergodic hypothesis, which originated from statistical mechanics.

Key concepts include:

- Measure-preserving transformations
- Ergodicity and mixing
- Invariant measures
- Birkhoff's Ergodic Theorem

- Unique ergodicity

Understanding these ideas lays the groundwork for exploring more advanced topics covered in graduate texts.

Essential Graduate Texts in Ergodic Theory

Choosing the right textbooks is essential for mastering ergodic theory. The following sections highlight some of the most influential and widely recommended graduate-level texts, discussing their strengths and targeted audiences.

1. "An Introduction to Ergodic Theory" by Peter Walters

Walters' book is often considered a classic starting point for graduate students.

Key features:

- Clear and rigorous presentation
- Focuses on measure-theoretic foundations
- Covers fundamental theorems such as Birkhoff's and von Neumann's
- Includes numerous exercises for practice

This text is ideal for students new to the field, providing a solid theoretical foundation before moving to more specialized topics.

2. "Ergodic Theory" by Karl Petersen

Petersen's work is comprehensive and slightly more advanced.

Key features:

- Emphasizes both measure-theoretic and topological dynamics
- Discusses entropy, mixing, and applications
- Contains detailed proofs and examples
- Suitable for students with some background in measure theory and topology

This book bridges foundational concepts with more recent developments, making it a good next step after Walters.

3. "Introduction to Ergodic Theory" by Ya. G. Sinai

Sinai's text offers a blend of intuition and formalism.

Key features:

- Focuses on the intuition behind the theorems
- Connects ergodic theory with statistical mechanics
- Includes historical notes and motivations
- Suitable for students who prefer a conceptual approach

Additional Resources and Advanced Texts

Graduate students aiming to deepen their understanding should explore more specialized and advanced texts. Here are some noteworthy options:

1. "Ergodic Theory and Differentiable Dynamics" by Anatole Katok and Boris Hasselblatt

This comprehensive volume covers a broad spectrum of topics.

Highlights:

- Smooth ergodic theory
- Hyperbolic systems and Anosov diffeomorphisms
- Structural stability
- It is suitable for students interested in the interface between ergodic theory and differential dynamics.

2. "Measure Theory and Probability" by Malcolm Adams and Victor Guillemin

While broader in scope, this book provides valuable measure-theoretic background essential for advanced ergodic theory.

Strategies for Studying Ergodic Theory Graduate Texts

Mastering ergodic theory requires more than just reading; active engagement is key. Here are some tips for making the most of these texts:

- **Start with the basics:** Ensure a solid understanding of measure theory, topology, and functional analysis.
- **Work through exercises:** Practice problems reinforce concepts and develop problem-solving skills.
- **Supplement with lectures and seminars:** Engage with online courses or university seminars for different perspectives.
- **Form study groups:** Discussing complex topics with peers enhances understanding.
- **Connect theory to applications:** Explore how ergodic theory applies to physics, information theory, and other fields.

Conclusion

An introduction to ergodic theory graduate texts provides a roadmap for students embarking on this mathematical journey. Starting with foundational books like Walters' "An Introduction to Ergodic Theory" offers an accessible entry point, while advanced texts like Katok and Hasselblatt's work open doors to current research areas. By selecting appropriate resources, actively engaging with the material, and connecting theory with applications, students can develop a deep and lasting understanding of ergodic theory. Whether your interest lies in pure mathematics, statistical mechanics, or dynamical systems, the right graduate texts are invaluable tools for your academic and research pursuits in ergodic theory.

An Introduction to Ergodic Theory Graduate Texts: A Comprehensive Guide for Students and Enthusiasts

Embarking on the study of ergodic theory graduate texts opens a gateway to a rich and profound branch of mathematics that intersects dynamical systems, measure theory, probability, and statistical mechanics. For graduate students venturing into this field, selecting the right textbooks can significantly influence their understanding and appreciation of the subject. This guide aims to shed light on the foundational texts, their structure, strengths, and how they serve as stepping stones into the depths of ergodic theory.

Understanding the Foundations of Ergodic Theory

Before diving into specific texts, it's crucial to grasp what ergodic theory entails. At its core, ergodic theory studies the long-term average behavior of dynamical systems with an invariant measure. Its applications range from statistical physics and information theory to number theory and chaos theory.

Key concepts include:

- Measure-preserving transformations
- Invariant measures
- Ergodicity and mixing
- Birkhoff's Ergodic Theorem
- Ornstein's theory of Bernoulli flows

Graduate texts in ergodic theory typically assume familiarity with measure theory, topology, and basic dynamical systems, making it a challenging yet rewarding subject for advanced students.

The Landscape of Graduate Texts in Ergodic Theory

Choosing a graduate-level textbook involves understanding its approach, prerequisites, and depth. The major texts in the field can generally be categorized based on their focus: foundational theory, applications, or a blend of both.

Classic and Seminal Texts

- "Ergodic Theory" by Peter Walters

- Overview: Widely regarded as a definitive introductory textbook, Walters' "Ergodic Theory" is praised for clarity, rigorous proofs, and comprehensive coverage.
- Scope: It covers measure-preserving transformations, ergodic decomposition, mixing properties, and entropy.
- Strengths:
 - Well-structured for graduate courses
 - Emphasizes the connection between measure theory and dynamics
 - Includes numerous examples and exercises
- Prerequisites: Measure theory, basic topology, and some familiarity with dynamical systems.

- "An Introduction to Ergodic Theory" by Peter Walters

- Often considered the go-to text for graduate students or advanced undergraduates beginning the subject.
- Focuses on core concepts with detailed proofs.
- Suitable as a primary textbook or supplementary resource.

Advanced and Specialized Texts

- "Ergodic Theory via Joinings" by Eli Glasner

- Overview: Focuses on joinings, a sophisticated tool in ergodic theory, providing a modern perspective.
- Audience: More suitable for students who have already mastered the basics and want to explore advanced topics.
- Features: Incorporates recent developments, emphasizing the structural and classification aspects of ergodic systems.

- "Entropy, Large Deviations, and Statistical Mechanics" by David Ruelle

- While broader in scope, this text delves into the thermodynamic formalism, a key area in ergodic theory.
- Ideal for students interested in the applications of ergodic theory in statistical physics.

Textbooks with a Focus on Applications or Interdisciplinary Approaches

- "Ergodic Theory: with a view towards Number Theory" by Manfred Einsiedler and Thomas Ward

- Overview: Connects ergodic theory with number theory, providing applications to problems like equidistribution and primes.
- Features: Combines rigorous theory with motivating applications, making it accessible and engaging.

How to Choose the Right Graduate Text in Ergodic Theory

When selecting a textbook, consider the following factors:

- Prerequisites: Ensure you have a solid background in measure theory and topology.
- Focus Area: Decide whether you want a foundational understanding or a focus on particular applications.
- Depth: Some texts offer a broad overview, while others delve into specialized topics.
- Teaching Style: Supplementary materials, exercises, and clarity of exposition can greatly impact your learning.

Recommended approach:

- Start with Walters? "Ergodic Theory" for a comprehensive foundation.
- Use other texts, like Glasner?s "Ergodic Theory via Joinings," for advanced topics.
- Supplement with research papers and lecture notes for recent developments.

Structuring Your Study of Ergodic Theory

To maximize your understanding, consider a structured approach:

- Build a Strong Measure Theory Foundation
 - Review measure spaces, sigma-algebras, and integration.
 - Study probability theory basics, as ergodic theory often involves probabilistic concepts.
- Understand Dynamical Systems
 - Familiarize yourself with topological and measurable dynamics.
 - Explore examples like rotations, shifts, and hyperbolic systems.
- Dive into Core Ergodic Concepts
 - Invariant measures and ergodicity
 - Birkhoff?s Ergodic Theorem
 - Mixing properties and their implications
- Explore Advanced Topics
 - Entropy theory
 - Ornstein?s isomorphism theorem
 - Joinings and structural classification
 - Connections with number theory and statistical mechanics

Supplementary Resources and Learning Strategies

- Lecture series: Many universities offer free lecture notes; for example, the lecture series by Peter Walters or others available online.
- Problem sets: Practice through exercises in textbooks or problem books.
- Research papers: Engage with current developments by reading papers in journals like Ergodic Theory and Dynamical Systems.
- Discussion groups: Join seminars or study groups focused on ergodic theory.

Conclusion

An introduction to ergodic theory graduate texts is essential for anyone aiming to master the subject at an advanced level. The journey begins with foundational texts like Peter Walters' "Ergodic Theory," which offers clarity and depth, and then progresses into more specialized or application-driven materials. By understanding the structure, prerequisites, and scope of these texts, students can tailor their learning path effectively. With dedication, rigorous study, and engagement with supplementary materials, mastering ergodic theory becomes an achievable and intellectually rewarding pursuit.

Final Tips

- Be patient: The subject is challenging but immensely rewarding.
- Connect theory with examples: Visualize systems like rotations or shifts.
- Engage actively: Solve problems and participate in discussions.
- Keep abreast of current research: This enriches your understanding and opens new avenues.

Embark on this mathematical voyage with confidence?ergodic theory offers profound insights into the behavior of complex systems and the nature of randomness and order in mathematics.

Question What is the primary focus of 'An Introduction to Ergodic Theory' by Peter Walters? The book provides a rigorous introduction to ergodic theory, focusing on measure-preserving transformations, ergodic theorems, and their applications in dynamical systems and statistical mechanics. Which prerequisites are recommended before studying this text? A solid background in measure theory, real analysis, and basic topology is recommended to fully grasp the concepts presented in the book. How does the book approach the topic of ergodic theorems? It systematically introduces the mean and pointwise ergodic theorems, providing proofs and discussing their implications in the context of dynamical systems. Are there applications of ergodic theory discussed in this graduate text? Yes, the book explores applications such as statistical properties of dynamical systems, mixing, and entropy, illustrating how ergodic theory connects to

various fields. Is this book suitable for self-study or primarily for classroom use? While designed as a graduate textbook, it is also suitable for self-study due to its clear explanations, though some background in measure theory is helpful. What makes 'An Introduction to Ergodic Theory' by Walters a trending choice among graduate texts? Its comprehensive coverage, clear exposition, and balance between theory and applications have made it a popular and influential resource in the field of ergodic theory.

Related keywords: ergodic theory, measure theory, dynamical systems, invariant measures, ergodicity, mixing, entropy, Birkhoff's theorem, stationary processes, ergodic decomposition

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