

READINGS IN THE PHILOSOPHY OF SCIENCE

READINGS IN THE PHILOSOPHY OF SCIENCE OFFER A COMPREHENSIVE EXPLORATION INTO THE FOUNDATIONAL QUESTIONS AND CONCEPTUAL FRAMEWORKS THAT UNDERPIN SCIENTIFIC INQUIRY. THESE TEXTS DELVE INTO THE NATURE OF SCIENTIFIC EXPLANATION, THE STRUCTURE OF SCIENTIFIC THEORIES, AND THE DEMARCATION BETWEEN SCIENCE AND NON-SCIENCE. ENGAGING WITH READINGS IN THE PHILOSOPHY OF SCIENCE PROVIDES CRITICAL INSIGHTS INTO HOW SCIENTIFIC KNOWLEDGE IS CONSTRUCTED, VALIDATED, AND CHALLENGED. THIS FIELD INTERSECTS WITH EPISTEMOLOGY, METAPHYSICS, AND LOGIC, MAKING IT ESSENTIAL FOR UNDERSTANDING THE BROADER IMPLICATIONS OF SCIENTIFIC PRACTICE. THE DIVERSITY OF PERSPECTIVES WITHIN THESE READINGS REFLECTS ONGOING DEBATES ABOUT REALISM, EMPIRICISM, AND THE ROLE OF VALUES IN SCIENCE. THIS ARTICLE EXAMINES KEY THEMES, INFLUENTIAL THINKERS, AND CORE TOPICS THAT FREQUENTLY APPEAR IN READINGS IN THE PHILOSOPHY OF SCIENCE. THE FOLLOWING SECTIONS GUIDE THE READER THROUGH AN ORGANIZED OVERVIEW OF THIS RICH INTELLECTUAL DOMAIN.

- KEY THEMES IN READINGS IN THE PHILOSOPHY OF SCIENCE
- INFLUENTIAL PHILOSOPHERS AND THEIR CONTRIBUTIONS
- MAJOR TOPICS EXPLORED IN THE PHILOSOPHY OF SCIENCE
- METHODS AND APPROACHES IN PHILOSOPHICAL ANALYSIS
- APPLICATIONS AND CONTEMPORARY DEBATES

KEY THEMES IN READINGS IN THE PHILOSOPHY OF SCIENCE

READINGS IN THE PHILOSOPHY OF SCIENCE OFTEN REVOLVE AROUND SEVERAL KEY THEMES THAT ARE CRUCIAL FOR UNDERSTANDING THE NATURE AND SCOPE OF SCIENTIFIC KNOWLEDGE. THESE THEMES ADDRESS FOUNDATIONAL QUESTIONS ABOUT HOW SCIENCE FUNCTIONS AS A SYSTEM OF INQUIRY AND HOW SCIENTIFIC CLAIMS CAN BE EVALUATED.

SCIENTIFIC EXPLANATION AND UNDERSTANDING

A CENTRAL THEME IN READINGS IN THE PHILOSOPHY OF SCIENCE IS THE NATURE OF SCIENTIFIC EXPLANATION. PHILOSOPHERS ANALYZE HOW EXPLANATIONS PROVIDE UNDERSTANDING BY REVEALING CAUSAL RELATIONSHIPS, LAWS, OR MECHANISMS UNDERLYING PHENOMENA. DIFFERENT MODELS OF EXPLANATION, SUCH AS DEDUCTIVE-NOMOLOGICAL AND CAUSAL EXPLANATIONS, ARE EXAMINED TO CLARIFY HOW SCIENCE ACCOUNTS FOR EMPIRICAL OBSERVATIONS.

THE STRUCTURE AND NATURE OF SCIENTIFIC THEORIES

ANOTHER PROMINENT THEME CONCERNS THE COMPOSITION AND ROLE OF SCIENTIFIC THEORIES. READINGS INVESTIGATE WHETHER THEORIES ARE BEST UNDERSTOOD AS SETS OF STATEMENTS, MATHEMATICAL MODELS, OR CONCEPTUAL FRAMEWORKS. THEORIES SERVE AS TOOLS FOR PREDICTION AND EXPLANATION, AND THEIR STRUCTURE PLAYS A PIVOTAL ROLE IN HOW SCIENTIFIC KNOWLEDGE DEVELOPS.

THE DEMARCATION PROBLEM

READINGS IN THE PHILOSOPHY OF SCIENCE FREQUENTLY ADDRESS THE DEMARCATION PROBLEM—DISTINGUISHING SCIENCE FROM PSEUDOSCIENCE OR NON-SCIENTIFIC DISCIPLINES. THIS THEME INVOLVES CRITERIA SUCH AS FALSIFIABILITY, EMPIRICAL TESTABILITY, AND METHODOLOGICAL RIGOR, WHICH HELP CLARIFY THE BOUNDARIES OF LEGITIMATE SCIENTIFIC INQUIRY.

INFLUENTIAL PHILOSOPHERS AND THEIR CONTRIBUTIONS

THE LANDSCAPE OF READINGS IN THE PHILOSOPHY OF SCIENCE IS SHAPED BY THE WORK OF SEVERAL NOTABLE PHILOSOPHERS WHOSE THEORIES AND CRITIQUES HAVE DEEPLY INFLUENCED THE FIELD. UNDERSTANDING THEIR CONTRIBUTIONS IS ESSENTIAL FOR GRASPING THE EVOLUTION OF PHILOSOPHICAL THOUGHT REGARDING SCIENCE.

KARL POPPER AND FALSIFIABILITY

KARL POPPER IS RENOWNED FOR INTRODUCING FALSIFIABILITY AS A CRITERION FOR DEMARCATING SCIENCE FROM NON-SCIENCE. HIS EMPHASIS ON THE PROVISIONAL NATURE OF SCIENTIFIC THEORIES UNDERSCORES THE IMPORTANCE OF TESTABILITY AND REFUTATION IN SCIENTIFIC PROGRESS. POPPER'S IDEAS REMAIN CENTRAL IN READINGS FOCUSING ON THE PHILOSOPHY OF SCIENTIFIC METHOD.

THOMAS KUHN AND PARADIGM SHIFTS

THOMAS KUHN'S CONCEPT OF PARADIGM SHIFTS REVOLUTIONIZED READINGS IN THE PHILOSOPHY OF SCIENCE BY HIGHLIGHTING THE NON-LINEAR, REVOLUTIONARY NATURE OF SCIENTIFIC CHANGE. HIS WORK STRESSES THE ROLE OF SCIENTIFIC COMMUNITIES, ANOMALIES, AND SHIFTS IN WORLDVIEWS, CHALLENGING THE TRADITIONAL CUMULATIVE VIEW OF SCIENTIFIC PROGRESS.

IMRE LAKATOS AND RESEARCH PROGRAMS

IMRE LAKATOS CONTRIBUTED TO THE UNDERSTANDING OF SCIENTIFIC METHODOLOGY THROUGH HIS THEORY OF RESEARCH PROGRAMS. HIS APPROACH ATTEMPTS TO RECONCILE POPPER'S FALSIFIABILITY WITH KUHN'S PARADIGM SHIFTS BY INTRODUCING PROGRESSIVE AND DEGENERATIVE RESEARCH PROGRAMS AS CRITERIA FOR EVALUATING SCIENTIFIC CHANGE.

PAUL FEYERABEND AND EPISTEMOLOGICAL ANARCHISM

PAUL FEYERABEND'S PROVOCATIVE STANCE IN READINGS IN THE PHILOSOPHY OF SCIENCE ARGUES AGAINST STRICT METHODOLOGICAL RULES, ADVOCATING FOR EPISTEMOLOGICAL ANARCHISM. HE CONTENDS THAT SCIENTIFIC PROGRESS OFTEN OCCURS THROUGH METHODOLOGICAL PLURALISM AND CHALLENGES THE IDEA OF A SINGLE SCIENTIFIC METHOD.

MAJOR TOPICS EXPLORED IN THE PHILOSOPHY OF SCIENCE

READINGS IN THE PHILOSOPHY OF SCIENCE COVER A WIDE RANGE OF TOPICS THAT ADDRESS FOUNDATIONAL AND PRACTICAL ISSUES RELATED TO SCIENTIFIC INQUIRY. THESE TOPICS PROVIDE A COMPREHENSIVE UNDERSTANDING OF HOW SCIENCE OPERATES AND INTERACTS WITH SOCIETY.

REALISM VS. ANTI-REALISM

THIS TOPIC DEBATES WHETHER SCIENTIFIC THEORIES DESCRIBE REALITY AS IT TRULY IS (REALISM) OR MERELY SERVE AS INSTRUMENTS FOR ORGANIZING OBSERVATIONS (ANTI-REALISM). READINGS EXPLORE ARGUMENTS SUPPORTING BOTH POSITIONS AND THEIR IMPLICATIONS FOR INTERPRETING SCIENTIFIC KNOWLEDGE.

THE ROLE OF OBSERVATION AND EXPERIMENTATION

OBSERVATION AND EXPERIMENTATION ARE FUNDAMENTAL TO SCIENTIFIC PRACTICE. READINGS EXAMINE THE THEORY-LADENNESS OF OBSERVATION, THE PROBLEM OF THEORY DEPENDENCE, AND HOW EMPIRICAL DATA SUPPORTS OR CHALLENGES SCIENTIFIC THEORIES.

SCIENTIFIC EXPLANATION AND CAUSALITY

THE QUEST TO UNDERSTAND CAUSALITY AND EXPLANATION IS CENTRAL IN THE PHILOSOPHY OF SCIENCE. READINGS ANALYZE DIFFERENT MODELS OF CAUSATION, INCLUDING COUNTERFACTUAL, MECHANISTIC, AND PROBABILISTIC ACCOUNTS, AND THEIR RELEVANCE IN PROVIDING SCIENTIFIC EXPLANATIONS.

SCIENTIFIC OBJECTIVITY AND VALUES

PHILOSOPHICAL DISCUSSIONS OFTEN FOCUS ON WHETHER SCIENCE CAN BE TRULY OBJECTIVE OR IS INEVITABLY INFLUENCED BY SOCIAL, ETHICAL, OR POLITICAL VALUES. READINGS INVESTIGATE THE INTERPLAY BETWEEN FACTS AND VALUES AND THE IMPACT OF THIS RELATIONSHIP ON SCIENTIFIC CREDIBILITY.

METHODS AND APPROACHES IN PHILOSOPHICAL ANALYSIS

READINGS IN THE PHILOSOPHY OF SCIENCE EMPLOY A VARIETY OF METHODS AND ANALYTICAL APPROACHES TO DISSECT SCIENTIFIC CONCEPTS AND PRACTICES. THESE METHODOLOGIES ENABLE A RIGOROUS EXAMINATION OF SCIENCE FROM MULTIPLE PERSPECTIVES.

LOGICAL AND ANALYTICAL METHODS

LOGICAL ANALYSIS IS A FOUNDATIONAL METHOD USED TO CLARIFY SCIENTIFIC CONCEPTS, EVALUATE ARGUMENTS, AND FORMALIZE SCIENTIFIC THEORIES. ANALYTICAL PHILOSOPHY EMPLOYS THESE TOOLS TO ASSESS THE COHERENCE AND VALIDITY OF SCIENTIFIC CLAIMS.

HISTORICAL AND SOCIOLOGICAL APPROACHES

HISTORICAL AND SOCIOLOGICAL PERSPECTIVES ARE INTEGRAL TO MANY READINGS IN THE PHILOSOPHY OF SCIENCE. THESE APPROACHES CONTEXTUALIZE SCIENTIFIC DEVELOPMENTS WITHIN BROADER SOCIAL AND HISTORICAL FRAMEWORKS, HIGHLIGHTING THE CONTINGENT NATURE OF SCIENTIFIC KNOWLEDGE.

CASE STUDIES AND THOUGHT EXPERIMENTS

CASE STUDIES OF SPECIFIC SCIENTIFIC EPISODES AND THOUGHT EXPERIMENTS ARE FREQUENTLY USED TO ILLUSTRATE PHILOSOPHICAL POINTS. THESE METHODS HELP ELUCIDATE COMPLEX ISSUES SUCH AS THEORY CHANGE, ANOMALY RESOLUTION, AND THE LIMITS OF SCIENTIFIC EXPLANATION.

APPLICATIONS AND CONTEMPORARY DEBATES

READINGS IN THE PHILOSOPHY OF SCIENCE EXTEND BEYOND THEORETICAL INQUIRY TO ENGAGE WITH CONTEMPORARY ISSUES AND PRACTICAL APPLICATIONS. THESE DISCUSSIONS REFLECT THE DYNAMIC NATURE OF THE FIELD AND ITS RELEVANCE TO CURRENT SCIENTIFIC AND SOCIETAL CHALLENGES.

SCIENCE AND TECHNOLOGY STUDIES

THE INTERSECTION OF PHILOSOPHY OF SCIENCE WITH SCIENCE AND TECHNOLOGY STUDIES (STS) EXPLORES HOW TECHNOLOGICAL DEVELOPMENTS INFLUENCE SCIENTIFIC PRACTICE AND KNOWLEDGE PRODUCTION. READINGS ADDRESS TOPICS SUCH AS THE SOCIAL CONSTRUCTION OF SCIENTIFIC FACTS AND THE ROLE OF TECHNOLOGY IN SHAPING RESEARCH AGENDAS.

ETHICS IN SCIENTIFIC PRACTICE

ETHICAL CONSIDERATIONS ARE INCREASINGLY PROMINENT IN READINGS FOCUSING ON RESPONSIBLE CONDUCT IN SCIENCE. TOPICS INCLUDE RESEARCH INTEGRITY, THE IMPLICATIONS OF SCIENTIFIC DISCOVERIES, AND THE ETHICAL RESPONSIBILITIES OF SCIENTISTS TOWARD SOCIETY.

PHILOSOPHY OF SPECIFIC SCIENCES

MANY READINGS SPECIALIZE IN THE PHILOSOPHY OF PARTICULAR SCIENTIFIC DISCIPLINES, SUCH AS PHYSICS, BIOLOGY, OR PSYCHOLOGY. THESE SPECIALIZED ANALYSES INVESTIGATE THE UNIQUE CONCEPTUAL CHALLENGES AND METHODOLOGICAL ISSUES WITHIN EACH FIELD.

1. CLARIFYING THE NATURE OF SCIENTIFIC INQUIRY AND EXPLANATION
2. UNDERSTANDING THEORY STRUCTURE AND SCIENTIFIC CHANGE
3. EVALUATING CRITERIA FOR SCIENTIFIC LEGITIMACY
4. INCORPORATING HISTORICAL AND SOCIOLOGICAL CONTEXTS
5. ADDRESSING ETHICAL AND SOCIETAL DIMENSIONS OF SCIENCE

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE KEY THEMES EXPLORED IN CLASSIC READINGS IN THE PHILOSOPHY OF SCIENCE?

CLASSIC READINGS IN THE PHILOSOPHY OF SCIENCE OFTEN EXPLORE THEMES SUCH AS THE NATURE OF SCIENTIFIC EXPLANATION, THE STRUCTURE OF SCIENTIFIC THEORIES, THE DEMARCATION PROBLEM BETWEEN SCIENCE AND NON-SCIENCE, THE ROLE OF OBSERVATION AND EXPERIMENTATION, AND THE CONCEPT OF SCIENTIFIC PROGRESS.

HOW DO READINGS IN THE PHILOSOPHY OF SCIENCE ADDRESS THE PROBLEM OF SCIENTIFIC REALISM?

READINGS IN THE PHILOSOPHY OF SCIENCE ADDRESS SCIENTIFIC REALISM BY DEBATING WHETHER SCIENTIFIC THEORIES TRULY DESCRIBE AN OBJECTIVE REALITY OR ARE MERELY USEFUL INSTRUMENTS. KEY DISCUSSIONS FOCUS ON ARGUMENTS FOR AND AGAINST REALISM, SUCH AS THE 'NO MIRACLES' ARGUMENT AND THE PESSIMISTIC META-INDUCTION.

WHAT IS THE SIGNIFICANCE OF THOMAS KUHN'S WORK IN READINGS OF THE PHILOSOPHY OF SCIENCE?

THOMAS KUHN'S WORK, ESPECIALLY 'THE STRUCTURE OF SCIENTIFIC REVOLUTIONS,' IS SIGNIFICANT BECAUSE IT INTRODUCED THE IDEA OF PARADIGM SHIFTS, CHALLENGING THE TRADITIONAL CUMULATIVE VIEW OF SCIENTIFIC PROGRESS AND HIGHLIGHTING THE SOCIOLOGICAL AND HISTORICAL DIMENSIONS OF SCIENTIFIC CHANGE.

HOW DO CONTEMPORARY READINGS IN PHILOSOPHY OF SCIENCE INCORPORATE THE ROLE

OF VALUES IN SCIENTIFIC INQUIRY?

CONTEMPORARY READINGS INCREASINGLY RECOGNIZE THAT VALUES—ETHICAL, SOCIAL, AND POLITICAL—PLAY A CRUCIAL ROLE IN SHAPING SCIENTIFIC INQUIRY, INFLUENCING RESEARCH PRIORITIES, INTERPRETATION OF DATA, AND APPLICATION OF SCIENTIFIC KNOWLEDGE, CHALLENGING THE IDEAL OF VALUE-FREE SCIENCE.

WHAT ROLE DO THOUGHT EXPERIMENTS PLAY IN READINGS ON THE PHILOSOPHY OF SCIENCE?

THOUGHT EXPERIMENTS ARE OFTEN DISCUSSED AS IMPORTANT TOOLS FOR EXPLORING SCIENTIFIC CONCEPTS, TESTING HYPOTHESES, AND EXAMINING THE IMPLICATIONS OF SCIENTIFIC THEORIES WITHOUT DIRECT EMPIRICAL EXPERIMENTATION, HIGHLIGHTING THEIR EPISTEMIC AND HEURISTIC VALUE.

HOW DO READINGS IN THE PHILOSOPHY OF SCIENCE APPROACH THE ISSUE OF SCIENTIFIC EXPLANATION?

THESE READINGS EXAMINE DIFFERENT MODELS OF SCIENTIFIC EXPLANATION, SUCH AS THE DEDUCTIVE-NOMOLOGICAL MODEL, CAUSAL EXPLANATIONS, AND UNIFICATIONIST APPROACHES, AIMING TO CLARIFY WHAT CONSTITUTES A SATISFACTORY SCIENTIFIC EXPLANATION.

IN WHAT WAYS DO FEMINIST PERSPECTIVES INFLUENCE READINGS IN THE PHILOSOPHY OF SCIENCE?

FEMINIST PERSPECTIVES CONTRIBUTE TO READINGS IN PHILOSOPHY OF SCIENCE BY CRITIQUING TRADITIONAL ASSUMPTIONS, EMPHASIZING THE ROLE OF GENDER AND SOCIAL CONTEXT IN SCIENTIFIC PRACTICES, AND ADVOCATING FOR MORE INCLUSIVE AND SOCIALLY RESPONSIBLE SCIENCE.

HOW DO HISTORICAL CASE STUDIES FEATURE IN READINGS OF THE PHILOSOPHY OF SCIENCE?

HISTORICAL CASE STUDIES ARE USED TO ILLUSTRATE AND ANALYZE SCIENTIFIC CONCEPTS, THEORY CHANGE, AND METHODOLOGY, PROVIDING CONCRETE EXAMPLES THAT INFORM PHILOSOPHICAL DEBATES ABOUT THE NATURE AND DEVELOPMENT OF SCIENTIFIC KNOWLEDGE.

ADDITIONAL RESOURCES

1. *"THE STRUCTURE OF SCIENTIFIC REVOLUTIONS"* BY THOMAS S. KUHN

THIS SEMINAL WORK INTRODUCES THE CONCEPT OF PARADIGM SHIFTS IN SCIENTIFIC PROGRESS. KUHN CHALLENGES THE TRADITIONAL VIEW OF SCIENCE AS A STEADY, CUMULATIVE ACQUISITION OF KNOWLEDGE, ARGUING INSTEAD THAT SCIENCE UNDERGOES PERIODIC REVOLUTIONARY CHANGES. THE BOOK HAS PROFOUNDLY INFLUENCED HOW WE UNDERSTAND SCIENTIFIC DEVELOPMENT AND THE DYNAMICS OF KNOWLEDGE CHANGE.

2. *"AGAINST METHOD"* BY PAUL FEYERABEND

FEYERABEND OFFERS A PROVOCATIVE CRITIQUE OF THE IDEA THAT SCIENCE FOLLOWS A UNIVERSAL AND FIXED METHOD. HE ARGUES FOR EPISTEMOLOGICAL ANARCHISM, SUGGESTING THAT SCIENTIFIC PROGRESS IS BETTER SERVED BY METHODOLOGICAL PLURALISM AND CREATIVITY RATHER THAN STRICT ADHERENCE TO RULES. THIS BOOK CHALLENGES CONVENTIONAL VIEWS ON SCIENTIFIC RATIONALITY AND METHODOLOGY.

3. *"THE LOGIC OF SCIENTIFIC DISCOVERY"* BY KARL POPPER

POPPER PRESENTS HIS PHILOSOPHY OF SCIENCE CENTERED ON FALSIFIABILITY AS THE CRITERION FOR SCIENTIFIC THEORIES. HE EMPHASIZES THAT SCIENTIFIC HYPOTHESES MUST BE TESTABLE AND REFUTABLE TO BE CONSIDERED SCIENTIFIC. THIS WORK LAYS THE FOUNDATION FOR CRITICAL RATIONALISM AND HAS BEEN INFLUENTIAL IN SHAPING THE PHILOSOPHY OF SCIENCE.

4. *"SCIENCE, TRUTH, AND DEMOCRACY"* BY PHILIP KITCHER

KITCHER EXPLORES THE SOCIAL DIMENSIONS OF SCIENTIFIC INQUIRY, ARGUING THAT SCIENCE SHOULD BE GUIDED BY DEMOCRATIC VALUES AND AIMED AT SOCIALLY BENEFICIAL GOALS. HE DISCUSSES HOW SCIENTIFIC KNOWLEDGE IS SHAPED BY SOCIAL INTERESTS AND ADVOCATES FOR A MORE INCLUSIVE AND RESPONSIBLE SCIENTIFIC PRACTICE. THE BOOK BRIDGES PHILOSOPHY OF SCIENCE WITH ETHICS AND POLITICS.

5. *"THE PHILOSOPHY OF SCIENCE: A VERY SHORT INTRODUCTION"* BY SAMIR OKASHA

THIS CONCISE INTRODUCTION PROVIDES AN ACCESSIBLE OVERVIEW OF KEY ISSUES IN THE PHILOSOPHY OF SCIENCE, INCLUDING EXPLANATION, CONFIRMATION, AND SCIENTIFIC REALISM. OKASHA PRESENTS COMPLEX CONCEPTS CLEARLY, MAKING IT IDEAL FOR READERS NEW TO THE FIELD. THE BOOK ALSO ADDRESSES CONTEMPORARY DEBATES AND THE EVOLVING NATURE OF SCIENTIFIC INQUIRY.

6. *"LAWS AND SYMMETRY"* BY BAS C. VAN FRAASSEN

VAN FRAASSEN EXAMINES THE NATURE OF SCIENTIFIC LAWS AND THEIR RELATIONSHIP TO SYMMETRY PRINCIPLES IN PHYSICS. HE CHALLENGES TRADITIONAL REALIST INTERPRETATIONS AND PROMOTES AN EMPIRICIST STANCE KNOWN AS CONSTRUCTIVE EMPIRICISM. THE BOOK IS A RIGOROUS EXPLORATION OF HOW LAWS FUNCTION WITHIN SCIENTIFIC THEORIES AND THEIR PHILOSOPHICAL IMPLICATIONS.

7. *"THE SCIENTIFIC IMAGE"* BY BAS C. VAN FRAASSEN

IN THIS INFLUENTIAL WORK, VAN FRAASSEN DEFENDS CONSTRUCTIVE EMPIRICISM, ASSERTING THAT SCIENCE AIMS TO GIVE US EMPIRICALLY ADEQUATE THEORIES RATHER THAN TRUE DESCRIPTIONS OF REALITY. HE QUESTIONS SCIENTIFIC REALISM AND EMPHASIZES THE IMPORTANCE OF OBSERVABLE PHENOMENA. THE BOOK PROVIDES A FOUNDATIONAL PERSPECTIVE ON THE GOALS AND LIMITS OF SCIENTIFIC KNOWLEDGE.

8. *"PHILOSOPHY OF SCIENCE: THE CENTRAL ISSUES"* EDITED BY MARTIN CURD AND J.A. COVER

THIS COMPREHENSIVE ANTHOLOGY COLLECTS KEY ESSAYS AND PAPERS THAT HAVE SHAPED THE FIELD OF PHILOSOPHY OF SCIENCE. COVERING TOPICS SUCH AS THEORY CHANGE, EXPLANATION, AND SCIENTIFIC REALISM, IT OFFERS A BROAD AND DIVERSE PERSPECTIVE. THE VOLUME IS ESSENTIAL FOR STUDENTS AND SCHOLARS SEEKING AN IN-DEPTH UNDERSTANDING OF CENTRAL DEBATES.

9. *"OBJECTIVITY"* BY LORRAINE DASTON AND PETER GALISON

DASTON AND GALISON TRACE THE HISTORICAL DEVELOPMENT OF THE CONCEPT OF OBJECTIVITY IN SCIENTIFIC PRACTICE. THEY ANALYZE HOW STANDARDS OF SCIENTIFIC OBSERVATION AND REPRESENTATION HAVE EVOLVED OVER TIME. THE BOOK COMBINES PHILOSOPHY, HISTORY, AND SOCIOLOGY OF SCIENCE TO ILLUMINATE THE COMPLEX NATURE OF SCIENTIFIC OBJECTIVITY.

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