

Exceptional Creativity In Science And Technology Individuals Institutions And Innovations

Memetics is the name commonly given to the study of memes - a term originally coined by Richard Dawkins to describe small inherited elements of human culture. Memes are the cultural equivalent of DNA genes - and memetics is the cultural equivalent of genetics. Memes have become ubiquitous in the modern world - but there has been relatively little proper scientific study of how they arise, spread and change - apparently due to turf wars within the social sciences and misguided resistance to Darwinian explanations being applied to human behaviour. However, with the modern explosion of internet memes, I think this is bound to change. With memes penetrating into every mass media channel, and with major companies riding on their coat tails for marketing purposes, social scientists will surely not be able to keep the subject at arm's length for much longer. This will be good - because an understanding of memes is important. Memes are important for marketing and advertising. They are important for defending against marketing and advertising. They are important for understanding and managing your own mind. They are important for understanding science, politics, religion, causes, propaganda and popular culture. Memetics is important for understanding the origin and evolution of modern humans. It provides insight into the rise of farming, science, industry, technology and machines. It is important for understanding the future of technological change and human evolution. This book covers the basic concepts of memetics, giving an overview of its history, development, applications and the controversy that has been associated with it.

This book represents the first comprehensive anthology of papers designed to explore both the state of scientific progress and the ethics, law and history of scientific research. It will appeal to a very wide international audience, offering a truly multidisciplinary analysis of many facets of scientific research.

Creativity influences each of our lives and is essential for the advancement of society. The first edition of the successful Encyclopedia of Creativity helped establish the study of creativity as a field of research in itself. The second edition, published in 2011, was named a 2012 Outstanding Academic Title by the American Library Association's Choice publication. Featuring 232 chapters, across 2 volumes, the third edition of this important work provides updated information on the full range of creativity research. There has been an enormous increase in research on the topic throughout the world in many different disciplines. Some areas covered in this edition include the arts and humanities, business, education, mental and physical health, neuroscience, psychology, the creative process and technology. Fundamental subjects are discussed such as the definition of creativity, the development and expression of creativity across the lifespan, the environmental conditions that encourage or discourage creativity, the relationship of creativity to mental health, intelligence and learning styles, and the process of being creative. Creativity is discussed within specific disciplines including acting, architecture, art, dance, film, government, interior design, magic, mathematics, medicine, photography, science, sports, tourism and writing. A wide range of topics are covered. Here is a partial overview by topic: Business and organizational creativity: Advertising, Creative Economies, Creativity Consulting and Coaching, Corporate Creativity, Creativity Exercises, Entrepreneurship, Group Dynamics, Innovation, Leadership, Management of Creative People, Patents, Teams, and Training. The Cognitive Aspects of Creativity: Altered and Transitional States, Analogies, Attention, Breadth of Attention, Cognitive Style, Divergent Thinking, Flow and Optimal Experience, Knowledge, Logic and Reasoning, Metacognition, Mental Models, Memory, Metaphors, Mind Wandering, Mindfulness, Problem-Finding, Problem-Solving, and Remote Associates. The Creative Process: Attribution, Constraints, Discovery, Insight, Inspiration, Intentionality, Motivation, Risk-Taking, and Tolerance for Ambiguity. Education: Children's Creativity, , Education, Intelligence, Knowledge, Metacognition, Play, Prodigies, Programs And Courses, Talent And Teaching Creativity. Neuroscience Research: Cellular Matter, Grey Matter, Cellular Density; EEG, Functional Magnetic Resonance Imaging (Fmri), Music and The Brain, Pupillometry, Systems, The Cerebellum and Transcranial Electrical Stimulation. Psychology: The Big 5 Personality Characteristics, Bipolar Mood Disorders, Childhood Trauma, Depression, Deviance, Dreams, Emotions, Expressive Arts, Grit, Introversion, Jungian Theory, Mad Genius Controversy, Openness, Schizotypy, Suicide, Therapy and Counseling Trauma and Transcendence and Transforming Illness and Visual Art. Social Aspects of Creativity: Awards, Birth Order, Criticism, Consensual Assessment, Diversity, Eminence, Families, Friendships and Social Networks, Geeks, Mentors, Millennials, Networking, Rewards, And Sociology. Society and Creativity: Awards, Climate For Creativity, Cross-Cultural Creativity, Destruction Of Creativity, Law And Society, Social Psychology, Social Transformation, Voting, War, and Zeitgeist. Technology: Chats, Computational Creativity, Computerized Text Analysis, Gaming, Memes, Networks and Maps, and Virtual Reality. Symposium held at Purdue Univ. in June 4-5, 2010.

Handbook of Organizational Creativity

Scientific Freedom

Genius: A Very Short Introduction

The International Handbook on Innovation

Critiques and Changing Perspectives in India

What are motor abilities of Olympic champions? What are essential psychological characteristics of Mark Spitz, Carl Lewis and Roger Federer? How to discover and maximally develop motor intelligence? How to develop - domitable will power of Olympic champions? What are the secrets of selection for the future Olympic champions? Does for every sport exist a unique model of an Olympic champion? This book gives a modern scientific answers to the above questions. Its purpose is to give you the answer to everything you ever wanted to ask about sport champions, but didn't know who or how to ask. In particular, the purpose of this book is to give you the answer to everything you ever wanted to ask about advanced tennis, but didn't know who or how to ask. Its aim is to dispel classical myths of a "biomechanically sound" serve, forehand, and backhand, as well as provide methods for developing superior tennis weapons, a lightning-fast game, and unrivaled mental speed and strength - essential qualities of a future tennis champion.

This volume presents the basic issues and up-to-date research findings in the area of genius, giftedness and creative behaviour. It gives an appreciation of the potential that exists among talented children and adults and how this can be transformed into highly significant and personally satisfying achievements. It also shows that such achievement involves great personal effort but can be facilitated by human relationships, institutional interventions, and historical conditions which present parents, educators and society with opportunities for maximizing the development of genius, giftedness, and creativity.

The first edition of the successful Encyclopedia of Creativity served to establish the study of creativity is a field in itself. Now completely updated and revised in its second edition, coverage encompasses the definition of creativity, the development and expression of creativity across the lifespan, the environmental conditions that encourage or discourage creativity, creativity within specific disciplines like music, dance, film, art, literature, etc., the relationship of creativity and mental health, intelligence, and learning styles, and the process of being creative. This reference also appeals to a lay audience with articles specifically on the application of creativity to business settings. Available online via ScienceDirect and in limited print release. Named a 2012 Outstanding Academic Title by the American Library Association's Choice publication Serves as a compendium of reviews of a number of domain-specific areas, such as acting, dance, expressive arts, film, food, music, religion, science, sports, theater, and writing. Creativity and education are examined in articles about thought processes, such as developmental trends in creative abilities and potentials, the enhancement of creativity, intelligence, knowledge, play, prodigies, programs and courses, talent and teaching creativity. Cognitive aspects of creativity can be investigated in articles about altered and transitional states, analogies, attention, cognitive style, divergent thinking, flow and optimal experience, metacognition, metaphors, problem-finding, problem-solving, and remote associates. Covers business and

organizational creativity in articles about advertising with art, creative visuals, business/management, creativity coaching, creativity exercises, entrepreneurship, group dynamics, innovation, leadership, organizational culture, organizational development, teams, and training, among others. Explicitly examines the complex interrelationship between society and creativity in articles about awards, conformity and conventionality, the creative sector and class of society, cultural diversity, the dark side of creativity, East vs. West, networking, social psychology, war, zeitgeist, and others. Personal and interpersonal creativity is discussed in articles relating to collaboration, family, life stages, mentors, networking, personal creativity and self-actualization. Focuses on scientific information about creativity, there are also articles that discuss brain and neuropsychology, concepts of creativity, definitions of creativity, expertise, longitudinal studies, researching art, artists and art audiences, research methods, phenomenology research and qualitative research. Online version contains an additional 26 biographies of famously creative people

This handbook focuses on the development and nurturance of creativity across the lifespan, from early childhood to adolescence, adulthood, and later life. It answers the question: how can we help individuals turn their creative potential into achievement? Each chapter examines various contexts in which creativity exists, including school, workplace, community spaces, and family life. It covers various modalities for fostering creativity such as play, storytelling, explicit training procedures, shifting of attitudes about creative capacity, and many others. The authors review research findings across disciplines, encompassing the work of psychologists, educators, neuroscientists, and creators themselves, to describe the best practices for fostering creativity at each stage of development.

Twice Exceptional

Zig Zag

Sudden Genius?

Thinking Through Creativity and Culture

The Palgrave Handbook of Social Creativity Research

The Elements of Creativity and Giftedness in Mathematics

The largest and broadest-ranging Handbook of creativity yet, presenting comprehensive, rigorous, and up-to-date scientific scholarship on creativity.

The Creativity Reader is a necessary companion for anyone interested in the historical roots of contemporary ideas about creativity, innovation, and imagination. It brings together a prestigious group of international experts who were tasked with choosing, introducing, and commenting on seminal texts focused on creativity, invention, genius, and imagination from the period of 1850 to 1950. This volume is at once retrospective and prospective: it revisits old ideas, assesses their importance today, and explores their potential for the future. Through its wide historical focus, this Reader challenges the widespread assumption that creativity research is mainly a product of the second half of the twentieth century. Featuring primary sources interpreted through the lenses of leading contemporary scholars, The Creativity Reader testifies to the incredible richness of this field of study, helps us understand its current developments, and anticipates its future directions. The texts included here, many of them little known or forgotten, are part of the living history of creativity studies. Indeed, an examination of these seminal papers helps the new generation of creativity and innovation researchers to be mindful of the past and unafraid to explore it.

A science-backed method to maximize creative potential in any sphere of life With the prevalence of computer technology and outsourcing, new jobs and fulfilling lives will rely heavily on creativity and innovation. Keith Sawyer draws from his expansive research of the creative journey, exceptional creators, creative abilities, and world-changing innovations to create an accessible, eight-step program to increasing anyone's creative potential. Sawyer reveals the surprising secrets of highly creative people (such as learning to ask better questions when faced with a problem), demonstrates how to come up with better ideas, and explains how to carry those ideas to fruition most effectively. This science-backed, step-by-step method can maximize our creative potential in any sphere of life. Offers a proven method for developing new ideas and creative problem-solving no matter what your profession Includes an eight-step method, 30 practices, and more than 100 techniques that can be launched at any point in a creative journey Psychologist, jazz pianist, and author Keith Sawyer studied with world-famous creativity expert Mihaly Csikszentmihalyi Sawyer's book offers a wealth of easy to apply strategies and ideas for anyone who wants to tap into their creative power.

Cutting-edge perspectives on the art and science of business creativity--from generating new ideas to transforming your company.

Creativity, Cognition, and Knowledge

Managing Innovative Organizations and People

Theory and Research

Encyclopedia of Giftedness, Creativity, and Talent

The Relationship of Imagery, Everyday Cognition, and Creative Potential Among High School Students with Exceptional Abilities in the Arts and Sciences

The Creativity Reader

Library Journal Best Reference 2009 Educators have begun to recognize that identifying and accommodating students who are slower to learn may leave behind those who learn rapidly and think creatively. The nature of intelligence, the sources of innovation, and the ways to nurture special abilities are now topics of great interest to scholars in a wide variety of disciplines and to the general public. Policymakers, ranging from school board members to leaders of nations, must also make practical decisions about how communities and societies will treat their brightest, most promising students. With more than 400 entries, these two volumes review research findings on giftedness, talent, and creativity and their effect on education, training, science and the arts, government policy, and everyday life. The Encyclopedia of

Giftedness, Creativity, and Talent provides a balanced, objective assessment of the various perspectives on the nature of intelligence, innovation, and optimal states. This state-of-the-art resource covers all major facets of the field, including achievement motivation, artistic ability, creative personality, emotional intelligence, gender differences, genius, intelligence testing, learning styles, minority underrepresentation, multiple intelligences, musical ability, prodigies, scientists, self actualization, thinking skills, and more. Key Themes Assessment and Identification Creativity Studies Cultural Issues Education Eminent People Exceptionalities Intelligence Neuroscience and Genetics Populations Programs and Interventions Psychological Issues Talent Domains Theories and Models Key Features Provides a balanced and critical discussion of the controversies that have animated research and theory making Clarifies which grouping and instructional strategies promote the best outcomes in achievement and social/emotional development of gifted children Helps educators make informed decisions about the identification strategies and the curriculum models that best meet their students' needs Contains thousands of pertinent facts from the fields of education, psychology, sociology, and the arts Evaluates policies that have hindered gifted children and makes a persuasive case for appropriately challenging and differentiated education Examines how giftedness, creativity, and talent were defined in the past and how current meanings have emerged.

Each year the Nobel Prizes in the natural sciences reveal amazing discoveries. New milestones in the relentless advance of science are identified. The growth of knowledge and its evolution can be researched in the Nobel archives where nominations are kept secret for 50 years after the awards have been made. They represent a treasure for real-time assessment of science. Norrby's earlier book, Nobel Prizes and Life Sciences (2010) examined the unique archival records until 1959. The present book takes us up to 1962, surveying a range of dazzling discoveries. All prizes in immunology are reviewed. Their impact on our capacity to control infectious diseases and transplant organs are highlighted. The Nobel year 1962 is exceptional in recognizing the most major advance in biology since Darwin in 1859 presented his theory of evolution. This was the dramatic discovery of the double-helix structure of DNA by Watson and Crick in 1953. The era of molecular biology had begun. Its explosive development continues into the present. Contents: A Magician of Virology from Australia A Divided Nobel Prize and a New Era in Immunology More Nobel Prizes in Immunology Immunity, Infections and Transplantations Transgressing Borders in Science and Scenes of Life Making Sense of Hearing Unraveling the Complexity of Protein Folding "It's So Beautiful, You See, So Beautiful" Coda Readership: General. Keywords: DNA; Nobel Prize; Life Science; Medical Discoveries; Molecular Biology Reviews: "This book describes and explains one of the most important discoveries of the 20th century. It is a seminal work, that scholars of the History of Science will use to be able to understand how science evolves. Young scientists will find this book a valuable resource." Sir Aaron Klug Nobel laureate in Chemistry, 1982 "Speculation about what happens in the selection of Nobel Prize winners is part of both the narrative and the 'gossip' of science. Interpreting what went on in the Nobel selection committees 50 years ago requires both an intimate understanding of how the process works and familiarity with subtleties of the Swedish language. Erling Norrby has the proper personal experiences to make such evaluations. In the present, his second, book he mainly reviews Medical Nobel awards during 1960 and 1962. Coming as it does near the beginnings of the modern medicine — recognizing exceptional advances in immunology and molecular biology — this is a fascinating era for those who are intrigued by the history of discovery." Peter C Doherty Nobel laureate in Physiology or Medicine, 1996 "The moment the Nobel Foundation announces its Prizes in the sciences, decades of struggle and turmoil toward discovery enter the spotlight. To skillfully examine some of the most dramatic scientific advances in the middle of the twentieth century, Erling Norrby has reached deeply into the Nobel archives to examine firsthand how many of the most illustrious Prizes from that era came to be awarded. As a superb scientist, educator and administrator, Dr Norrby is able to tell these stories within the context of the scientific discoveries." Stanley B Prusiner Nobel laureate in Physiology or Medicine, 1997 "I particularly enjoyed Norrby's lengthy treatment of the 1962 chemistry prize — to James Watson, Francis Crick, and Maurice Wilkins, 1962 for their structural work on the structure of DNA ... This well-referenced and copiously illustrated book, featuring meditations, poetry, quotations, and miscellaneous musings, is a true labour of love. I heartily recommend it to anyone interested in the history of scientific discovery, the personalities of those who pursue it, and how it actually happens and is received." Chemistry & Industry

This is a graduate-level monographic textbook in the field of Computational Intelligence. It presents a modern dynamical theory of the computational mind, combining cognitive psychology, artificial and computational intelligence, and chaos theory with quantum consciousness and computation. The book introduces to human and computational mind, comparing and contrasting main themes of cognitive psychology, artificial and computational intelligence.

The Elements of Creativity and Giftedness in Mathematics edited by Bharath Sriraman and KyeongHwa Lee covers recent advances in mathematics education pertaining to the development of creativity and giftedness. The book is international in scope in the "sense" that it includes numerous studies on mathematical creativity and giftedness conducted in the U.S.A, China, Korea, Turkey, Israel, Sweden, and Norway in addition to cross-national perspectives from Canada and Russia. The topics include problem -posing, problem-solving and mathematical creativity; the development of mathematical creativity with students, pre and in-service teachers; cross-cultural views of creativity and giftedness; the unpacking of notions and labels such as high achieving, inclusion, and potential; as well as the theoretical state of the art on the constructs of mathematical creativity and giftedness. The book also includes some contributions from the first joint meeting of the American Mathematical Society and the Korean Mathematical Society in Seoul, 2009. Topics covered in the book are essential reading for graduate students and researchers interested in researching issues and topics within the domain of mathematical creativity and mathematical giftedness. It is also accessible to pre-service and practicing teachers interested in developing creativity in their classrooms, in addition to professional development specialists, mathematics educators, gifted educators, and psychologists.

Genius and Eminence

Exceptional Creativity in Science and Technology

With Practical Applications in Tennis

The Gradual Path to Creative Breakthroughs

The Neuroscience of Creativity

Transatlantic Crosscurrents from William James to Oliver Sacks

Exceptional Creativity in Science and Technology *Individuals, Institutions, and Innovations* Templeton Foundation Press

This exceptional collection draws on the most recent demographic data and combines classic research with cutting-edge approaches to provide an invaluable overview of the developmental psychology of the adult years. Covers a wide range of topics within adult development and aging, from theoretical perspectives to specific content areas Includes newly commissioned essays from the top researchers in the field Takes a biopsychosocial perspective, covering the biological, psychological and social changes that occur in adulthood

Now in a revised and expanded fourth edition, this definitive reference and text has more than 50% new material, reflecting a decade of theoretical and empirical advances. Prominent researchers describe major theories and review cutting-edge findings. The volume explores how personality emerges from and interacts with biological, developmental, cognitive, affective, and social processes, and the implications for well-being and health. Innovative research programs and methods are presented throughout. The concluding section showcases emerging issues and new directions in the field. New to This Edition *Expanded coverage of personality development, with chapters on the overall life course, middle childhood, adolescence, and early adulthood. *Three new chapters on affective processes, plus chapters on neurobiology, achievement motivation, cognitive approaches, narcissism, and other new topics. *Section on cutting-edge issues: personality interventions, personality manifestations in everyday life, geographical variation in personality, self-knowledge, and the links between personality and economics. *Added breadth and accessibility--42 more concise chapters, compared to 32 in the prior edition. In the evolution of science and technology, laws governing exceptional creativity and innovation have yet to be discovered. The historian Thomas Kuhn, in his influential study *The Structure of Scientific Revolutions*, noted that the final stage in a scientific breakthrough such as Albert Einstein's theory of relativity—that is, the most crucial stage—was “inscrutable.” The same is still true half a century later. Yet, there has been considerable progress in understanding many of the stages and facets of exceptional creativity and innovation. In *Exceptional Creativity in Science and Technology* editor Andrew Robinson gathers together a diverse group of contributors to explore this progress. This new collection arises from a symposium with the same title held at the Institute for Advanced Study (IAS), in Princeton. Organized by the John Templeton Foundation, the symposium had as its chair the late distinguished doctor and geneticist Baruch S. Blumberg, while its IAS host was the well-known physicist Freeman J. Dyson—both of whom have contributed chapters to the book. In addition to scientists, engineers, and an inventor, the book's fifteen contributors include an economist, entrepreneurs, historians, and sociologists, all working at leading institutions, including Bell Laboratories, Microsoft Research, Oxford University, Princeton University, and Stanford University. Each contributor brings a unique perspective to the relationships between exceptional scientific creativity and innovation by individuals and institutions. The diverse list of disciplines covered, the high-profile contributors (including two Nobel laureates), and their fascinating insights into this overarching question—how exactly do we make breakthroughs?—will make this collection of interest to anyone involved with the creative process in any context, but it will be especially appealing to readers in scientific and technological fields.

Romantic Science and the Experience of Self

Nobel Prizes and Nature's Surprises

Relation Philosophy of Mathematics, Science, and Mind

The Science of Interest

The Wiley-Blackwell Handbook of Adulthood and Aging

Psychology of Science

Discover how the creative brain works across musical, literary, visual artistic, kinesthetic and scientific spheres, and how to study it.

In this groundbreaking volume, Dartnall argues that cognitive science needs a new epistemology that re-evaluates the role of representations in cognition and accounts for the flexibility and fluidity of creative thought.

Creativity is of rising interest to scholars and laypeople alike. Creativity in the arts, however, is very different from creativity in science, business, sports, cooking, or teaching. This book brings together top experts in the field from around the world to discuss creativity across many different domains. Each chapter includes clear definitions, intriguing research, potential measures, and suggestions for development or future directions. After a broad discussion of creativity across different domains, subsequent chapters look deeper into those individual domains (traditional arts, sciences, business, newer domains, and everyday life) to explore how creativity varies when expressed in different ways. Ultimately, the book offers a future-looking perspective integrating the different variations of creativity across domains.

First published in 1999, this engaging interdisciplinary study of romantic science focuses on the work of five influential figures in twentieth-century transatlantic intellectual history. In this book, Martin Halliwell constructs an innovative tradition of romantic science by indicating points of theoretical and historical intersection in the thought of William James (American philosopher); Otto Rank (Austrian psychoanalyst); Ludwig Binswanger (Swiss psychiatrist); Erik Erikson (Danish/German psychologist); and Oliver Sacks (British neurologist). Beginning with the ferment of intellectual activity in late eighteenth-

century German Romanticism, Halliwell argues that only with William James' theory of pragmatism early in the twentieth century did romantic science become a viable counter-tradition to strictly empirical science. Stimulated by debates over rival models of consciousness and renewed interest in theories of the self, Halliwell reveals that in their challenge to Freud's adoption of ideas from nineteenth-century natural science, these thinkers have enlarged the possibilities of romantic science for bridging the perceived gulf between the arts and sciences.

Handbook of Personality, Fourth Edition

The NIH Record

Perennial Philosophy for Mathematicians and Scientists

Encyclopedia of Creativity

The Cambridge Handbook of Creativity across Domains

Selected Essays on Science and Technology for Securing a Better Philippines

In an educational system founded on rigid standards and categories, students who demonstrate a very specific manifestation of intelligence flourish, while those who deviate tend to fall between the cracks. Too often, talents and interests that do not align with classroom conventions are left unrecognized and unexplored in children with extraordinary potential but little opportunity. For twice-exceptional (2e) children, who have extraordinary strengths coupled with learning difficulties, the problem is compounded by the paradoxical nature of their intellect and an unbending system, ill-equipped to cater to their unique learning needs. *Twice Exceptional: Supporting and Educating Bright and Creative Students with Learning Difficulties* provides cutting-edge, evidence-based approaches to creating an environment where twice-exceptional students can thrive. Viewing the 2e student as neither exclusively disabled nor exclusively gifted, but, rather, as a dynamic interaction of both, leading experts offer holistic insight into identification, social-emotional development, advocacy, and support for 2e students. With chapters focusing on special populations (including autism, dyslexia, and ADHD) as well as the intersection of race and 2e, this book highlights practical recommendations for school and social contexts. In expounding the unique challenges faced by the 2e population, *Twice Exceptional* makes a case for greater flexibility in our approach to education and a wider notion of what it means to be academically successful.

A feminist analysis of the gendered concepts and practices of science, showing how science and technology impact women's bodies, lives and work *Feminists and Science, volume 2*, critiques the relationship between science, gender and patriarchies in the Indian context from a multi-disciplinary perspective. This volume addresses the complexity of local knowledge and the politics of knowledge-making, interrogates how creativity and the practices of science are gendered, explores the methodologies of doing science differently and moves towards a more inclusive pedagogy. It draws upon the experience of how science and technology has impacted Indian women, going beyond the problems of women scientists in institutions, and offers a pioneering contribution to both science and women's studies.

The first concise study of genius in both the arts and the sciences, using the life and work of famous geniuses to illuminate this phenomenon.-publisher description.

The highly admired scientist Linus Pauling, a double Nobel laureate in chemistry and peace, was once asked by a student. 'Dr Pauling, how do you have so many good ideas?' Pauling thought for a moment and replied: 'Well, David, I have a lot of ideas and throw away the bad ones.' Where do ideas come from? Why do some people have many more of them than others? How do you distinguish the good ideas from the bad? Most intriguing of all, perhaps, why do the best ideas sometimes strike in a flash of 'sudden genius'? These questions are the subject of this book. Andrew Robinson explores the exceptional creativity in both scientists and artists by following the trail that led ten individuals from childhood to the achievement of a famous creative breakthrough as an adult, in archaeology, architecture, art, biology, chemistry, cinema, music, literature, photography, and physics. Broken into three parts, the book begins with the scientific study of creativity, covering talent, genius, intelligence, memory, dreams, the unconscious, savant syndrome, synaesthesia, and mental illness. The second part tells the stories of five breakthroughs by scientists and five by artists, ranging from Curie's discovery of radium and Einstein's theory of special relativity to Mozart's composing of *The Marriage of Figaro* and Virginia Woolf's writing of *Mrs Dalloway*. Robinson concludes by considering what highly creative people who achieve breakthroughs have in common; whether breakthroughs in science and art follow patterns; and whether they always involve imaginative leaps and even 'genius'.

The Social Psychology of Creativity and Exceptional Achievement

Toward an Integrated Model

Feminists and Science

The Creative Enterprise

Supporting and Educating Bright and Creative Students with Learning Difficulties

Memetics

Creativity and culture are inherently linked. Society and culture are part and parcel of creativity's process, outcome, and subjective experience. Equally, creativity does not reside in the individual independent of culture and society. Vlad Petre Glveanu's basic framework includes creators and community, from which new artifacts emerge and existing artifacts are developed. He points to a relationship between self and other, new and old, specific for every creative act. Using this multifaceted system requires that researchers employ ecological research in order to capture the heterogeneity and social dimensions of creativity. Glveanu uses an approach based on cultural psychology to present creativity in lay terms and within everyday settings. He concludes with a unitary cultural framework of creativity interrelating actors, audiences, actions, artifacts, and affordances.

This exceptional volume analyzes the intricate roles interest plays in cognition, motivation and learning, and daily living, with a special focus on its development and maintenance across life domains. Leading experts discuss a spectrum of interest ranging from curiosity to obsession, and trace its functions in goal-setting, decision-making, self-regulation, and performance. New research refines the current knowledge on student interest in educational settings and the social contexts of interest, with insights into why interest levels change during engagement and in the long run. From these findings, contributors address ways to foster and nurture interest in the therapy room and the classroom, for optimum benefits throughout life. Among the topics covered: · Embedding interest within self-regulation. · Knowledge acquisition at the intersection of situational and individual interest. · The role of interest in motivation and engagement. · The two faces of passion. · Creative geniuses, polymaths, child prodigies, and autistic savants. · The promotion and development of interest. A robust guide to a fascinating area of study, The Science of Interest synthesizes the field's current knowledge of interest and indicates future directions. Its chapters contribute depth and rigor to this growing area of research, and will enhance the work of researchers in education, psychologists, social scientists, and public policymakers.

The organizations of today are longing for sustainable growth, and this book discusses the suitable strategies to attain it. This book will help the readers to better understand the environment, to plan suitable programmes to enhance creativity in the members of the organization, to go for total quality and finally to attain sustainable growth. The book discusses these concepts in three parts, creativity management, quality management, and strategic management with relevant case studies and exhibits.

The breadth of this work will allow the reader to acquire a comprehensive and panoramic picture of the nature of innovation within a single handbook.

New Dimensions of Management

An Interaction

Memes and the Science of Cultural Evolution

The Surprising Path to Greater Creativity

Implicit and Explicit Processes

National Science Foundation Reauthorization

Handbook of Organizational Creativity is designed to explain creativity and innovation in organizations. This handbook contains 28 chapters dedicated to particularly complex phenomena, all written by experts in the field of organizational creativity. The format of the book follows the multi-level structure of creativity in organizations where creativity takes place at the individual level, the group level, and the organizational level. Beyond just theoretical frameworks, applications and interventions are also emphasized. This topic will be of particular interest to managers of creative personnel, and managers who want to realize the potential benefit of creativity to their organizations. Information is presented in a manner such that students, researchers, and managers alike should have much to gain from the present handbook. Idea generation, affect, personality, expertise, teams, leadership, and planning, among many others, are discussed. Specific practical interventions are discussed that involve training, development, and organizational development. Provides a summary of the field's history, the current state of the field, as well as viable directions for future research.

This Handbook brings together an international cast of experts to explore the social nature and context of creativity studies, focusing on methodology as a key component in advancing the field. Two decades on from the pioneering work of Alfonso Montuori and Ronald E. Purser, the authors present a timely appraisal of past and present work in social creativity studies, and look ahead to future developments within this field. The authors collectively offer a rigorous examination of the methodological and empirical issues and techniques involved in studying social creativity. They examine creativity as a form of communication and interaction within collaborative relationships; contending that creativity happens not within a vacuum but instead from a nexus of personal, social and contextual factors. This comprehensive work is organized in three parts, focusing first on the various methodological approaches applicable to the social in creativity studies. It secondly turns to empirical findings and the social nature of creativity. In the book's final part, the authors offer reflections on the state of social research into creativity, pinpointing areas requiring further methodological scrutiny and verification, and areas that may inspire further theoretical or applied work. Combining classic ideas with cutting-edge, emerging methods, this work provides a vital methodological 'toolbox' for social creativity.

Images of Creativity

The Cambridge Handbook of Creativity

Complex Sports Biodynamics

Hearing Before the Subcommittee on Research and Science Education, Committee on Science and Technology, House of Representatives, One Hundred Tenth Congress, First Session, March 2007. Pt. I and Pt. II

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2014: Outside witness testimony

Computational Mind: A Complex Dynamics Perspective