



ALBERT ROTHENBERG

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# FLIGHT FROM WONDER

An Investigation of Scientific Creativity

OXFORD

# Flight From Wonder An Investigation Of Scientific Creativity

**Vlad P. Glaveanu**



## **Flight From Wonder An Investigation Of Scientific Creativity:**

**Flight from Wonder** Albert Rothenberg, 2015 Scientific breakthroughs have had far reaching social and physical effects on modern civilization yet until recently there have been relatively few investigations into the nature of scientific creativity itself *Flight from Wonder* reports the findings from an empirical study of 42 Nobel laureates in science from the United States and Europe concerning the creative processes that yield scientific innovation To this end Albert Rothenberg designed an interview scheme to delineate the content and sequences of processes that lead scientists to specific creative achievements He conducted interviews with Nobel laureates in the fields of medicine physiology physics and chemistry while carrying out matching interviews with a control group consisting of twelve accomplished engineers on the faculty of a leading engineering university Rothenberg's results demonstrate that the Nobel laureates perform three distinct cognitive creative processes to achieve key formulations and discoveries the detailed nature and structure of these findings were reviewed and corroborated by each of the Nobel laureates To supplement his findings Rothenberg engages with autobiographical accounts and work in progress manuscripts pertaining to the creative discoveries of outstanding scientists of the past including Albert Einstein Charles Darwin Max Planck Neils Bohr Hideki Yukawa and James Watson The book will interest students and general science readers fascinated by the development of scientific inquiry and innovation

*Wonder* Vlad P. Glaveanu, 2020-06-25 This book is dedicated to wonder and wondering mundane phenomena that despite their great value for education and other spheres of human experience often go unnoticed both inside and outside the classroom Praised as the origin of philosophy in ancient times the concern for understanding and educating wonder has been present throughout history It is not only the case that this basic psychological process opens our everyday experience to what is possible what lies beyond the here and now but does so with extraordinary consequences *Wonder* transforms our experience of the world from early childhood onwards It is ever present in children's play and games it offers constant opportunities for learning and it fuels our creativity And yet we know little about this phenomenon its biological psychological social and cultural underpinning and even less about how to foster it and harness its benefits in education This book fills this gap and gives a scientific yet accessible account of wondering It proposes a new way of understanding wonder while at the same time offering practical tools for cultivating wonder within ourselves our interpersonal relations and within educational practice

**Artistic Creativity** Albert Rothenberg, 2024-09-13 This book presents the creative processes in art throughout history and cultures A specific cognitive function the homospacial process is extensively documented and described as well as short and long term scientific research in artistic creation and its applications to aesthetic appreciation Drawing on research in psychology of creativity creative operations and relationship of mental health and illness to creativity the author delves into the psychology of creativity in art and other fields and presents intensive and experimental studies of Rembrandt's self portraiture controlled experimental assessment of prizewinning young artists descriptions of three key creative processes

and in depth exploration of the operation of the specific creative homospatial process in works of art throughout history The book also presents specific controlled experimentation on use of the homospatial process its application in the creation of clothing design and two explorations of major artists and the relationship of mental health and creativity ending with a reflection on the role and function of creativity in society      *The Cambridge Handbook of Creativity across Domains* James C. Kaufman,Vlad P. Glăveanu,John Baer,2017-09-28 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

*The Cambridge Handbook of the Neuroscience of Creativity* Rex E. Jung,Oshin Vartanian,2018-01-25 Historically the brain bases of creativity have been of great interest to scholars and the public alike However recent technological innovations in the neurosciences coupled with theoretical and methodological advances in creativity assessment have enabled humans to gain unprecedented insights into the contributions of the brain to creative thought This unique volume brings together contributions by the very best scholars to offer a comprehensive overview of cutting edge research on this important and fascinating topic The chapters discuss creativity s relationship with intelligence motivation psychopathology and pharmacology as well as the contributions of general psychological processes to creativity such as attention memory imagination and language This book also includes specific and novel approaches to understanding creativity involving musicians polymaths animal models and psychedelic experiences The chapters are meant to give the reader a solid grasp of the diversity of approaches currently at play in this active and rapidly growing field of inquiry      Encyclopedia of Creativity Mark A. Runco,Steven R. Pritzker,2020-04-12 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

**Homo Creativus** Todd Lubart, Marion Botella, Samira Bourgeois -Bougrine, Xavier Caroff, Jerome Guegan, Christophe Mouchiroud, Julien Nelson, Franck Zenasni, 2022-06-07 This book focuses on creativity and showcases a specific approach to creativity It uses a new 7 C s basis for understanding creativity creators creating cooperation context creations consumption and curricula This new approach to creativity is an extension of the 4 P approach person process press and product which has dominated the literature since the 1960s In each section there are two chapters which illustrate work on the topic and focus on some key issues

**The Creativity Reader** Vlad Petre Glaveanu, 2019-05-13 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

**Handbook of Personality** Oliver P. John, Richard W. Robins, 2021-01-26 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

Creations David H Cropley, 2025-03-25 This edited book explores creative products i e Creations as part of the seven C s of creativity framework Through nine chapters leading scholars in the field explore five different domains education crime terrorism music science and engineering addressing the nature of the creations in each given domain and the criteria by which creations in that domain are judged Drawing together key underpinning concepts from the science of creativity the book delves into the history of creativity research applied to products to then explore new concepts that are impacting on research especially the role of artificial intelligence in supporting the development and assessment of creative products

**The Cambridge Handbook of Creativity** James C. Kaufman, Robert J. Sternberg, 2019-04-25 The largest and broadest ranging Handbook of creativity yet presenting comprehensive rigorous and up to date scientific scholarship on creativity

*Creative Provocations: Speculations on the Future of Creativity, Technology & Learning* Danah Henriksen, Punya Mishra, 2023-01-01 This book explores the complex yet critical relationship between technology and creativity specifically in educational contexts Creativity is important for success in today s rapidly changing radically contingent and hyperconnected world This is even more relevant in the context of teaching and learning where the psychological sociological and cultural aspects of human learning confront the challenges of a rapidly changing technologically saturated world Written by some of the foremost thinkers and researchers in the area of creativity and or technology the chapters in this volume examine the impact of recent and future technologies on creativity

teaching and learning Individually and collectively they help us develop an understanding of this nexus of creativity and technology for education They offer new perspectives on this rapidly evolving future exploring issues paradoxes tensions and points of interest for creativity and technology They position these issues in ways that consider implications for thinking learning teaching and education in general

**Dynamic Perspectives on Creativity** Ronald A. Beghetto, Giovanni Emanuele Corazza, 2019-01-17 This edited volume provides a venue for scholars whose work challenges the typical static conceptions and methods of studying creativity More specifically the book will serve as an effort to introduce more dynamic definitions conceptions and approaches for studying creativity in the context of educational practice By doing so it feeds the strong contemporary need for more dynamic conceptions of creativity in educational settings This is particularly important given the fast evolution of modern society and the widespread consensus that efforts to develop creative potential should be democratized extending well beyond the boundaries of the gifted subset and the walls of the classroom This work recognizes that more dynamic perspectives on creativity are necessary for understanding its complexity value and meaning in educational contexts

**Freedom and Other Keys to Creativity** Joaquim Franch, 2022-06-13 There is a lot of buzz on creativity and there are many ways to look at it but in this book you will not find a methodology for unlocking your inner creative soul Instead you will be immersed in a thought provoking dive into neuroscience philosophy psychology and a variety of references from arts and sciences Creativity takes courage and it also takes time one must take the existential approach of becoming a meaningful engagement with life Enjoy creativity as a process not as a tool to conquer a goal Most people read one or two books on creativity in a lifetime Joaquim Franch has probably read them all In this book he has broken them down sorted out the common denominators and put them in order to produce a book that is both thought proving and practical An essential read for anyone interested in creativity Ian Gibbs with a degree in astrophysics and a postgrad in education is an entrepreneur working as a learning strategies specialist Author of The Sorites Principle and the 2022 TEDx Talk The Secret Key to Learning Hidden in Plain Sight I consider it of great value that the author has made use of creative parameters to address its nature The result is a useful and original book that undoubtedly helps to take a step further in understanding creativity

Matilde Obradors Professor in the Department of Communication at the Pompeu Fabra University Barcelona Author of *Creatividad y generaci n de ideas* My friend Joaquim is a true generalist and a systems thinker and not surprisingly with this work he has achieved a balanced vision of a widely studied subject in the Anglo American world It s an honest intellectual analysis of diverse sources

Pere Mar s former Professor in the Automatic Control Department at the Polytechnic University of Catalonia Barcelona

**The Creative Self** Maciej Karwowski, James C. Kaufman, 2017-02-22 The Creative Self reviews and summarizes key theories studies and new ideas about the role and significance self beliefs play in one s creativity It untangles the interrelated constructs of creative self efficacy creative metacognition creative identity and creative self concept It explores how and when creative self beliefs are formed as well as

how creative self beliefs can be strengthened Part I discusses how creativity plays a part in one's self identity and its relationship with free will and efficacy Part II discusses creativity present in day to day life across the lifespan Part III highlights the intersection of the creative self with other variables such as mindset domains the brain and individual differences Part IV explores methodology and culture in relation to creativity Part V discusses additional constructs or theories that offer promise for future research on creativity Explores how beliefs about one's creativity are part of one's identity Investigates the development of self beliefs about creativity Identifies external and personality factors influencing self beliefs about creativity Incorporates worldwide research with cross disciplinary contributors

Handbook of Culture and Creativity Angela K.-Y. Leung, Letty Kwan, Shyhnan Liou, 2018-05-16 The Handbook of Culture and Creativity is a collaborative effort to provide readers with an in depth and systematic inquiry into the cultural processes of creativity and innovation as well as the creative processes of cultural transformation As the editors acknowledge creativity emerges from dialogical interaction with cultural imperatives norms and artifacts but culture also evolves and transforms through a generative process fueled by creativity In order to illuminate nuanced insights on the complex culture creativity nexus this volume is organized into four broad sections reciprocal relationships socio cultural contexts diversifying experiences and creativity and policy and applied perspectives Edited by Angela K Y Leung Letty Kwan and Shyhnan Liou this cogent volume features cutting edge evidence and research and lays the groundwork for pursuing a new science for integrating the study of culture and creativity

The Oxford Handbook of Spontaneous Thought Kieran C.R. Fox, Kalina Christoff, 2018-05-16 Where do spontaneous thoughts come from It may be surprising that the seemingly straightforward answers from the mind or from the brain are in fact an incredibly recent understanding of the origins of spontaneous thought For nearly all of human history our thoughts especially the most sudden insightful and important were almost universally ascribed to divine or other external sources Only in the past few centuries have we truly taken responsibility for their own mental content and finally localized thought to the central nervous system laying the foundations for a protoscience of spontaneous thought But enormous questions still loom what exactly is spontaneous thought Why does our brain engage in spontaneous forms of thinking and when is this most likely to occur And perhaps the question most interesting and accessible from a scientific perspective how does the brain generate and evaluate its own spontaneous creations Spontaneous thought includes our daytime fantasies and mind wandering the flashes of insight and inspiration familiar to the artist scientist and inventor and the nighttime visions we call dreams This Handbook brings together views from neuroscience psychology philosophy phenomenology history education contemplative traditions and clinical practice to begin to address the ubiquitous but poorly understood mental phenomena that we collectively call spontaneous thought In studying such an abstruse and seemingly impractical subject we should remember that our capacity for spontaneity originality and creativity defines us as a species and as individuals Spontaneous forms of thought enable us to transcend not only the here and now of perceptual experience but also the bonds



of our deliberately controlled and goal directed cognition they allow the space for us to be other than who we are and for our minds to think beyond the limitations of our current viewpoints and beliefs

**The Palgrave Handbook of Positive Education** Margaret L. Kern, Michael L. Wehmeyer, 2021-06-24 This open access handbook provides a comprehensive overview of the growing field of positive education featuring a broad range of theoretical applied and practice focused chapters from leading international experts It demonstrates how positive education offers an approach to understanding learning that blends academic study with life skills such as self awareness emotion regulation healthy mindsets mindfulness and positive habits grounded in the science of wellbeing to promote character development optimal functioning engagement in learning and resilience The handbook offers an in depth understanding and critical consideration of the relevance of positive psychology to education which encompasses its theoretical foundations the empirical findings and the existing educational applications and interventions The contributors situate wellbeing science within the broader framework of education considering its implications for teacher training education and developmental psychology school administration policy making pedagogy and curriculum studies This landmark collection will appeal to researchers and practitioners working in positive psychology educational and school psychology developmental psychology education counselling social work and public policy

**The Art of Serendipity** Wendy Ross, Samantha Copeland, 2022-02-10 Serendipity and creativity are both broad widely disputed and yet consistently popular concepts which are relevant to understanding the positive aspects of our daily lives and even human progress in the arts and sciences The chapters in this book reflect a variety of theoretical and practical approaches to serendipity in various domains including creative problem solving sculpture writing theatre and design Chapter authors address issues such as the nature of the prepared mind the role of accidents serendipity as a skill or way of engaging with the world and indeed how serendipity works as a concept and practice in relation to the dynamic flow of the creative system Those who wish to explore the nature of chance in art and creativity as well as in their daily lives will find much to ponder in these pages

**The Palgrave Encyclopedia of the Possible** Vlad Petre Glăveanu, 2023-01-25 The Palgrave Encyclopedia of the Possible represents a comprehensive resource for researchers and practitioners interested in an emerging multidisciplinary area within psychology and the social sciences the study of how we engage with and cultivate the possible within self society and culture Far from being opposed either to the actual or the real the possible engages with concrete facts and experiences with the result of transforming them This encyclopedia examines the notion of the possible and the concepts associated with it from standpoints within psychology philosophy sociology neuroscience and logic as well as multidisciplinary fields of research including anticipation studies future studies complexity theory and creativity research Presenting multiple perspectives on the possible the authors consider the distinct social cultural and psychological processes e g imagination counterfactual thinking wonder play inspiration and many others that define our engagement with new possibilities in domains as diverse as the arts design and business

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