

Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

Human health and well-being are inextricably linked to nature; our connection to the natural world is part of our biological inheritance. In this engaging book, a pioneer in the field of biophilia—the study of human beings' inherent affinity for nature—sets forth the first full account of nature's powerful influence on the quality of our lives. Stephen Kellert asserts that our capacities to think, feel, communicate, create, and find meaning in life all depend upon our relationship to nature. And yet our increasing disconnection and alienation from the natural world reflect how seriously we have undervalued its important role in our lives. Weaving scientific findings together with personal experiences and perspectives, Kellert explores specific human tendencies—including affection, aversion, intellect, control, aesthetics, exploitation, spirituality, and communication—to discover how they are influenced by our relationship with nature. He observes that a beneficial relationship with the natural world is an instinctual inclination, but must be earned. He discusses how we can restore the balance in our relationship by means of changes in childhood development, education, conservation, building design, ethics, and

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

everyday life. Kellert's moving book provides exactly what is needed now: a fresh understanding of how much our essential humanity relies on being a part of the natural world.

In this brief, accessible volume, the authors — an urban philosopher and a mathematician-physicist — explain the surprising new findings from the sciences that are beginning to transform environmental design in the modern era. Authors Michael Mehaffy and Nikos Salingaros explore fractals, networks, self-organization, dynamical systems and other revolutionary ideas, describing them to non-science readers in a direct and engaging way. The book also examines fascinating new topics of design, including Agile, Wiki, Design Patterns and other “open-source” approaches from the software world. The authors conclude that a profound transformation is under way in modern design — and today’s students and practitioners will need to be aware of its implications for our future. “Lucidly describes what’s coming in the world of design — and what needs to come.” — Ward Cunningham, Inventor of wiki, and pioneer of Pattern Languages of Programming, Agile, and Scrum “Essential reading for all urban designers.” — Jeff Speck, Author of Walkable City “Brilliant.” — Charles Montgomery, Author of Happy City “Inspired, compelling and fascinating...

Recognizes that a true architecture can be dug from the facts, insights, and theories, that occur with a

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

broadening of science to include the human being.”

— Christopher Alexander, Author of *A Pattern Language* and *Notes on the Synthesis of Form*

Some comments on the individual chapters:

“Packed with detail and beautiful in presentation.” —

Gil Friend “Human society must find a path of retreat. Salingaros and Mehaffy point the way.” —

David Brussat, *Providence Journal* “Michael Mehaffy and Nikos Salingaros have written some brilliant articles on how we can co-create cities which are truly resilient, rather than being ‘engineered resilient’.” —

Smallworld Urbanism “For me, this essay was like a flash of insight, and I suddenly saw the world in a new light.” —

Oeyvind Holmstad, *Permaliv* “We’ve just come across a very thoughtful article by Michael Mehaffy and Nikos Salingaros... [who] draw a number of lessons from biological systems and use them to draw conclusions about how resilient human systems must be designed.” —

Resilient Design Institute “Salingaros and Mehaffy take us from the configuration of city spaces to the order of cells in living beings.” —

Jaap Dawson, *Delft Institute of Technology* “If you wanted to know where the cutting edge was in urban design, it is here.” —

Patrick J. Kennedy, *CarFreeInBigD* “This is the single most intelligent and illuminating article I’ve seen on Archdaily in 3 years.” —

Nìming Pínglùn Zh?, *China* Michael Mehaffy is an urbanist and design theorist, and a periodic visiting professor or

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

adjunct in five graduate universities in four countries and three disciplines (architecture, urban planning and philosophy) including the University of Oregon (US) and the University of Strathclyde (UK). He has been a close associate of the architect and software pioneer Christopher Alexander, and a Research Associate with the Center for Environmental Structure, Alexander's research center founded in 1967. He is currently executive director of Portland, Oregon based Sustasis Foundation, and editor of Sustasis Press. Nikos A. Salingaros is a mathematician and polymath known for his work on urban theory, architectural theory, complexity theory, and design philosophy. He has been a close collaborator of the architect and computer software pioneer Christopher Alexander. Salingaros published substantive research on Algebras, Mathematical Physics, Electromagnetic Fields, and Thermonuclear Fusion before turning his attention to Architecture and Urbanism. He is Professor of Mathematics at the University of Texas at San Antonio and has been on the Architecture faculties of universities in Italy, Mexico, and The Netherlands.

When searching for genuinely sustainable building design and technology - designs that go beyond conventional sustainability to be truly restorative - we often find that nature got there first. Over 3.5 billion years of natural history have evolved innumerable examples of forms, systems, and processes that can

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

be applied to modern green design. For architects, urban designers and product designers, this new edition of *Biomimicry in Architecture* looks to the natural world to achieve radical increases in resource efficiency. Packed with case studies predicting future trends, this edition also contains updated and expanded chapters on structures, materials, waste, water, thermal control and energy, as well as an all-new chapter on light. An amazing sourcebook of extraordinary design solutions, *Biomimicry in Architecture* is a must-read for anyone preparing for the challenges of building a sustainable and restorative future.

Although workplace design and management are gaining more and more attention from modern organizations, workplace research is still very fragmented and spread across multiple disciplines in academia. There are several books on the market related to workplaces, facility management (FM), and corporate real estate management (CREM) disciplines, but few open up a theoretical and practical discussion across multiple theories from different fields of studies. Therefore, workplace researchers are not aware of all the angles from which workplace management and effects of workplace design on employees has been or could be studied. A lot of knowledge is lost between disciplines, and sadly, many insights do not reach workplace managers in practice. Therefore, this new

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

book series is started by associate professor Rianne Appel-Meulenbroek (Eindhoven University of Technology, the Netherlands) and postdoc researcher Vitalija Danivska (Aalto University, Finland) as editors, published by Routledge. It is titled 'Transdisciplinary Workplace Research and Management' because it bundles important research insights from different disciplinary fields and shows its relevance for both academic workplace research and workplace management in practice. The books will address the complexity of the transdisciplinary angle necessary to solve ongoing workplace-related issues in practice, such as knowledge worker productivity, office use, and more strategic workplace management. In addition, the editors work towards further collaboration and integration of the necessary disciplines for further development of the workplace field in research and in practice. This book series is relevant for workplace experts both in academia and industry. This first book in the series focuses on the employee as a user of the work environment. The 21 theories discussed and applied to workplace design in this book address people's ability to do their job and thrive in relation to the office workplace. Some focus more on explaining why people behave the way they do (the psychosocial environment), while others take the physical and/or digital workplace quality as a starting point to explain employee outcomes such as

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

health, satisfaction, and performance. They all explain different aspects for achieving employee-workplace alignment (EWA) and thereby ensuring employee thriving. The final chapter describes a first step towards integrating these theories into an overall interdisciplinary framework for eventually developing a grand EWA theory. The Open Access version of this book, available at <http://www.taylorfrancis.com/books/e/9781003128830>, has been made available under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license.

Written by a leading proponent of biophilic design, this is the only practical guide to biophilic design principles for interior designers. Describing the key benefits, principles and processes of biophilic design, *Nature Inside* illustrates the implementation of biophilic design in interior design practice, across a range of international case studies – at different scales, and different typologies. Starting with the principles of biophilic design, and the principles and processes in practice, the book then showcases a variety of interior spaces – residential, retail, workplace, hospitality, education, healthcare and manufacturing. The final chapter looks ‘outside the walls’, giving a case study at the campus and city scale. With practical guidance and real-world solutions that can be directly-applied in day-to-day practice, this is a must-have for designers interested in applying biophilic principles.

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

"Here is a synthesis that makes sense of buildings from all ages: historical, vernacular, to cutting-edge architectural creations. This book of lectures and essays cuts through the often-incomprehensible fog of contemporary architectural discourse to reveal theoretical foundations for design. Much of the material was developed as part of a course introducing scientific thinking into architecture, and actually estimating factors that contribute to the success of a building"--Author's webpage.

The Green Studio Handbook remains an essential resource for design studios and professional practice. This extensive and user-friendly tool presents practical guidelines for the application of green strategies during the schematic design of buildings. Students and professionals can quickly get up to speed on system viability and sizing. Each of forty-three environmental strategies includes a brief description of principles and concepts, step-by-step guidance for integrating the strategy during the early stages of design, annotated tables and charts to assist with preliminary sizing, key issues to consider when implementing the strategy, and pointers to further resources. Ten new in-depth case studies illustrate diverse and successful green buildings integrated design projects and how the whole process comes together This third edition features updated tables and charts that will help to save energy, water, and material resources during the

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

early stages of design. More than 500 sketches and full-color images illustrate how to successfully apply strategies. A glossary, a project index listing 105 buildings in 20 countries, updated tables and drawings, and I-P and SI units increase the usefulness of *The Green Studio Handbook*.

"This book offers chapter on architecture, urban design, urban planning, landscape design, design, social science, policy-making, and all fields of technology as a foundation for a deeper understanding of a close relationship between nature, the environment, and ways of living on specific topics"--

Biophilic Design: The Theory, Science and Practice of Bringing Buildings to Life John Wiley & Sons

Lighting is a basic, yet difficult-to-master, element of interior design, and *Lighting Design Basics* provides the information you need in a concise, highly visual format. Two leading designers, both with decades of experience, offer straightforward coverage of concepts and techniques, and present realistic goals you can use as guides to creating simple, typical lighting designs and when collaborating with professional designers on more complex projects. Design scenarios for more than twenty different spaces illustrate real-world case studies for illuminating residential and commercial spaces, from kitchens to doctors' offices. Each scenario includes an in-depth rationale for the proposed solution, insightful lighting distribution diagrams, floor plans, and details for lighting installation and construction. In addition, exercises allow you to develop lighting design skills in preparation for working on actual projects, as well as the

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

NCIDQ and NCARB exams. Packed with informative illustrations, *Lighting Design Basics* is an invaluable resource for students, as well as interior designers and architects studying for professional licensing exams.

Using psychology to develop spaces that enrich human experience *Place design matters*. Everyone perceives the world around them in a slightly different way, but there are fundamental laws that describe how people experience their physical environments. *Place science* principles can be applied in homes, schools, stores, restaurants, workplaces, healthcare facilities, and the other spaces people inhabit. This guide to person-centered place design shows architects, landscape architects, interior designers, and other interested individuals how to develop spaces that enrich human experience using concepts derived from rigorous qualitative and quantitative research. In *Place Advantage: Applied Psychology for Interior Architecture*, applied environmental psychologist Sally Augustin offers design practitioners accessible environmental psychological insights into how elements of the physical environment influence human attitudes and behaviors. She introduces the general principles of place science and shows how factors such as colors, scents, textures, and the spatial composition of a room, as well as personality and cultural identity, impact the experience of a place. These principles are applied to multiple building types, including residences, workplaces, healthcare facilities, schools, and retail spaces. Building a bridge between research and design practice, *Place Advantage* gives people designing and using spaces the evidence-based information and psychological insight to create environments that encourage people to work effectively, learn better, get healthy, and enjoy life.

Clearly written and profusely illustrated, this text brings the timeless lessons of residential design to homeowners who

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

seek inspiration and direction. Insightful tours of 33 homes bring essential design concepts to life. 300 color photos. 50 illustrations.

Biophilic Urbanism provides readers with the tools to create more nature-based urban environments that are climate positive, sustainable, and healthy. The principles of biophilia are intended to support appreciation and direct engagement with nature, to responsibly utilize on-site natural resources, and to plan according to climatic conditions and local ecological processes. It seeks to create resilient and equitable human places capable of providing critical life-support functions and a strong sense of community, and to foster experiences that raise the human spirit creating a sense of awe. Twenty-five pattern attributes are defined and explored, each of which contributes to these goals. Because of the dire necessity to respond to the COVID-19 pandemic, Biophilic Urbanism includes discussion of our need for connections, both to nature and one another, and the physical characteristics of cities and buildings relative to the contagious qualities of the air-borne virus. Case studies, found throughout the world, are presented illustrating detailed biophilic planning and design strategies. The book will be of use to practitioners and students in the fields of natural and social sciences, behavioral science and psychology, environmental engineering, health and wellness professionals, architecture, landscape architecture, interior architecture, and planning.

The Interior Architecture Theory Reader presents a global compilation that collectively and specifically defines interior architecture. Diverse views and comparative resources for interior architecture students, educators, scholars, and practitioners are needed to develop a proper canon for this young discipline. As a theoretical survey of interior architecture, the book examines theory, history, and

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

production to embrace a full range of interior identities in architecture, interior design, digital fabrication, and spatial installation. Authored by leading educators, theorists, and practitioners, fifty chapters refine and expand the discourse surrounding interior architecture.

A gorgeously illustrated, accessible book that provides a holistic summary of the key elements for good biophilic design

Does going green change the face of design or only its content? The first book to outline principles for the aesthetics of sustainable design, *The Shape of Green* argues that beauty is inherent to sustainability, for how things look and feel is as important as how they're made. In addition to examining what makes something attractive or emotionally pleasing, Hosey connects these questions with practical design challenges. Can the shape of a car make it more aerodynamic and more attractive at the same time? Could buildings be constructed of porous materials that simultaneously clean the air and soothe the skin? Can cities become verdant, productive landscapes instead of wastelands of concrete? Drawing from a wealth of scientific research, Hosey demonstrates that form and image can enhance conservation, comfort, and community at every scale of design, from products to buildings to cities. Fully embracing the principles of ecology could revolutionize every aspect of design, in substance and in style. Aesthetic attraction isn't a superficial concern — it's an environmental imperative. Beauty could save the planet.

More than a decade in the making, this is a textbook of architecture, useful for every architect: from first-year students, to those taking senior design studio, to graduate students writing a Ph.D. dissertation in architectural theory, to experienced practicing architects.

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

It is very carefully written so that it can be read even by the beginning architecture student. The information contained here is a veritable gold mine of design techniques. This book teaches the reader how to design by adapting to human needs and sensibilities, yet independently of any particular style. Here is a unification of genuine architectural knowledge that brings a new clarity to the discipline. It explains much of what people instinctively know about architecture, and puts that knowledge for the first time in a concise, understandable form. Dr. Salingaros has experience in the organization of the built environment that few practicing architects have. The later chapters of this new book touch on very sensitive topics: what drives architects to produce the forms they build; and why architects use only a very restricted visual vocabulary. Is it personal inventiveness, or is it something more, which perhaps they are not even aware of? There has not been such a book treating the very essence of architecture. The only other author who is capable of raising a similar degree of passion (and controversy) is Christopher Alexander, who happens to be Dr. Salingaros' friend and architectural mentor.

"Surely no voice is more thought-provoking than that of this intriguing, perhaps historically important, new thinker?" From the Preface by His Royal Highness, Charles, The Prince of Wales "A New Vitruvius for 21st-Century Architecture and Urbanism?" Dr. Ashraf Salama Chair, Department of Architecture and Urban Planning, Qatar University, Doha, Qatar "Architecture, Salingaros argues, is governed by universal and intuitively understood principles, which have been

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

exemplified by all successful styles and in all civilizations that have left a record of themselves in their buildings.

The solution is not to return to the classical styles... the solution is to return to first principles and build within their constraints... ” Dr. Roger Scruton Philosopher, London, UK

“A fundamental text, among the most significant of the past several years.” Dr. Vilma Torselli Architect and Author, Milan, Italy

“A Theory of Architecture demonstrates how mathematics and the social sciences offer keys to designing a humane architecture. In this brilliant tome Salingaros explains why many modern buildings are neither beautiful nor harmonious and, alternatively, how architects and patrons can employ scale, materials and mathematical logic to design structures which are exciting, nourishing, and visually delightful.” Duncan G. Stroik Professor of Architecture, University of Notre Dame, Indiana

“Salingaros explores ways to clarify and formalize our understanding of aesthetic forms in the built environment, using mathematics, thermodynamics, Darwinism, complexity theory and cognitive sciences. Salingaros’ remarkable observations suggest that

concepts of complexity and scale can someday provide a full-bodied explanation for both the practice and the appreciation of architecture.” Kim Sorvig Architecture & Planning, University of New Mexico See this book’s Wikipedia entry

http://en.wikipedia.org/wiki/A_Theory_of_Architecture

Nikos A. Salingaros is an internationally known urbanist and architectural theorist who has studied the scientific bases underlying architecture for thirty years. Utne

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

Reader ranked him as "One of 50 visionaries who are changing your world", and Planetizen as 11th among "The top 100 urban thinkers of all time". He is Professor of Mathematics at the University of Texas at San Antonio.

"When nature inspires our architecture-not just how it looks but how buildings and communities actually function-we will have made great strides as a society. Biophilic Design provides us with tremendous insight into the 'why,' then builds us a road map for what is sure to be the next great design journey of our times." -Rick Fedrizzi, President, CEO and Founding Chairman, U.S. Green Building Council "Having seen firsthand in my company the power of biomimicry to stimulate a wellspring of profitable innovation, I can say unequivocally that biophilic design is the real deal. Kellert, Heerwagen, and Mador have compiled the wisdom of world-renowned experts to produce this exquisite book; it is a must reading for scientists, philosophers, engineers, architects and designers, and most especially-businesspeople. Anyone looking for the key to a new type of prosperity that respects the earth should start here." -Ray C. Anderson, founder and Chair, Interface, Inc. The groundbreaking guide to the emerging practice of biophilic design This book offers a paradigm shift in how we design and build our buildings and our communities, one that recognizes that the positive experience of natural systems and processes in our buildings and constructed landscapes is critical to human health, performance, and well-being. Biophilic design is about humanity's place in nature and the natural

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

world's place in human society, where mutuality, respect, and enriching relationships can and should exist at all levels and should emerge as the norm rather than the exception. Written for architects, landscape architects, planners, developers, environmental designers, as well as building owners, *Biophilic Design: The Theory, Science, and Practice of Bringing Buildings to Life* is a guide to the theory, science, and practice of biophilic design. Twenty-three original and timely essays by world-renowned scientists, designers, and practitioners, including Edward O. Wilson, Howard Frumkin, David Orr, Grant Hildebrand, Stephen Kieran, Tim Beatley, Jonathan Rose, Janine Benyus, Roger Ulrich, Bert Gregory, Robert Berkebile, William Browning, and Vivian Loftness, among others, address:

- * The basic concepts of biophilia, its expression in the built environment, and how biophilic design connects to human biology, evolution, and development.
- * The science and benefits of biophilic design on human health, childhood development, healthcare, and more.
- * The practice of biophilic design—how to implement biophilic design strategies to create buildings that connect people with nature and provide comfortable and productive places for people, in which they can live, work, and study.

Biophilic design at any scale—from buildings to cities—begins with a few simple questions: How does the built environment affect the natural environment? How will nature affect human experience and aspiration? Most of all, how can we achieve sustained and reciprocal benefits between the two? This prescient, groundbreaking book provides the answers.

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

Tim Beatley has long been a leader in advocating for the "greening" of cities. But too often, he notes, urban greening efforts focus on everything except nature, emphasizing such elements as public transit, renewable energy production, and energy efficient building systems. While these are important aspects of reimagining urban living, they are not enough, says Beatley. We must remember that human beings have an innate need to connect with the natural world (the biophilia hypothesis). And any vision of a sustainable urban future must place its focus squarely on nature, on the presence, conservation, and celebration of the actual green features and natural life forms. A biophilic city is more than simply a biodiverse city, says Beatley. It is a place that learns from nature and emulates natural systems, incorporates natural forms and images into its buildings and cityscapes, and designs and plans in conjunction with nature. A biophilic city cherishes the natural features that already exist but also works to restore and repair what has been lost or degraded. In *Biophilic Cities* Beatley not only outlines the essential elements of a biophilic city, but provides examples and stories about cities that have successfully integrated biophilic elements--from the building to the regional level--around the world. From urban ecological networks and connected systems of urban greenspace, to green rooftops and green walls and sidewalk gardens, Beatley reviews the emerging practice of biophilic urban design and planning, and tells many compelling stories of individuals and groups working hard to transform cities from grey and lifeless to green and biodiverse.

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

Sustainable design is a collective process whereby the built environment achieves unprecedented levels of ecological balance through new and retrofit construction, with the goal of long-term viability and humanization of architecture. Focusing on the environmental context, sustainable design merges the natural, minimum resource conditioning solutions of the past (daylight, solar heat, and natural ventilation) with the innovative technologies of the present. The desired result is an integrated “intelligent” system that supports individual control with expert negotiation for resource consciousness. International experts in the field address the fundamental questions of sustainable design and landscape management: How should the sustainability of landscapes and buildings be evaluated? Which targets have to be set and which thresholds should not be exceeded? What forms of planning and governance structures exist and to what extent do they further the goals of sustainability? Gathering 30 peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology, Sustainable Built Environments provides comprehensive, multidisciplinary coverage of these issues and other aspects of sustainable building and landscape design.

Serenity is becoming alarmingly absent from our daily existence, especially within the urban context. Time is dense and space is tumultuous. The idea of the serene has gained currency in postmodern discussions, and when combined with urbanism conjures questions, even contradictions, as the two ideas seem improbable yet their correspondence seems so inherently desirable.

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

Integrated, these two constructs present design challenges as they manifest in differing ways across the rural–urban transect. In response, Part I of this book establishes the theoretical framework through different contemporary perspectives, and concludes with a clear explanation of a theory of serene urbanism. The positive characteristics of urbanism and beneficial qualities of the serene are explored and related to sustainability, biophilia, placemaking and environmental design. Both principles and examples are presented as compelling portraits for the proposal of these new urban landscapes. Part II of the work is an in-depth exploration and analysis of serene urban ideas related to the intentional community being created outside of Atlanta, Georgia, USA. "Serenbe" is the name given to this place to commemorate the value and nuance between the serene and urban.

Sustainable design has made great strides in recent years; unfortunately, it still falls short of fully integrating nature into our built environment. Through a groundbreaking new paradigm of "restorative environmental design," award-winning author Stephen R. Kellert proposes a new architectural model of sustainability. In *Building For Life*, Kellert examines the fundamental interconnectedness of people and nature, and how the loss of this connection results in a diminished quality of life. This thoughtful new work illustrates how architects and designers can use simple methods to address our innate needs for contact with nature. Through the use of natural lighting, ventilation, and materials, as well as more unexpected

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

methodologies-the use of metaphor, perspective, enticement, and symbol-architects can greatly enhance our daily lives. These design techniques foster intellectual development, relaxation, and physical and emotional well-being. In the works of architects like Frank Lloyd Wright, Eero Saarinen, Cesar Pelli, Norman Foster, and Michael Hopkins, Kellert sees the success of these strategies and presents models for moving forward. Ultimately, Kellert views our fractured relationship with nature as a design problem rather than an unavoidable aspect of modern life, and he proposes many practical and creative solutions for cultivating a more rewarding experience of nature in our built environment.

"This publication offers practical advice and inspiration for ensuring that nature in the city is more than infrastructure--that it also promotes well-being and creates an emotional connection to the earth among urban residents. Divided into six parts, the Handbook begins by introducing key ideas, literature, and theory about biophilic urbanism. Chapters highlight urban biophilic innovations in more than a dozen global cities. The final part concludes with lessons on how to advance an agenda for urban biophilia and an extensive list of resources."--Publisher.

Scientists, theologians, and the spiritually inclined, as well as all those concerned with humanity's increasingly widespread environmental impact, are beginning to recognize that our ongoing abuse of the earth diminishes our moral as well as our material condition. Many people are coming to believe that strengthening the bonds

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

among spirituality, science, and the natural world offers an important key to addressing the pervasive environmental problems we face. *The Good in Nature and Humanity* brings together 20 leading thinkers and writers -- including Ursula Goodenough, Lynn Margulis, Dorion Sagan, Carl Safina, David Petersen, Wendell Berry, Terry Tempest Williams, and Barry Lopez -- to examine the divide between faith and reason, and to seek a means for developing an environmental ethic that will help us confront two of our most imperiling crises: global environmental destruction and an impoverished spirituality. The book explores the ways in which science, spirit, and religion can guide the experience and understanding of our ongoing relationship with the natural world and examines how the integration of science and spirituality can equip us to make wiser choices in using and managing the natural environment. The book also provides compelling stories that offer a narrative understanding of the relations among science, spirit, and nature. Grounded in the premise that neither science nor religion can by itself resolve the prevailing malaise of environmental and moral decline, contributors seek viable approaches to averting environmental catastrophe and, more positively, to achieving a more harmonious relationship with the natural world. By bridging the gap between the rational and the religious through the concern of each for understanding the human relation to creation, *The Good in Nature and Humanity* offers an important means for pursuing the quest for a more secure and meaningful world.

This book brings together the views of some of the

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

most creative scientists of our time, each attempting to amplify and refine the concept of biophilia.

Contributors to this volume include Jared Diamond, Aaron Katcher, Richard Nelson and others.

Nature has always been a source of inspiration for the design of the human environment. The analysis of biological constructions can not only lead to astonishing technical solutions but can also inspire the design of architecture. Bionics is a fascinating border area between pure research and practical application: biologists, chemists, physicists, mineralogists, and paleontologists meet up with material scientists, engineers, and architects and transfer their knowledge to architecture and construction. Using numerous practical examples, this richly illustrated introduction traces the process from the understanding of how something functions, to abstraction—for example in computer models—and the construction of initial prototypes, through to fully functional manufacture and production.

This book addresses the emergence of biophilic design, a form of design that looks at people's intrinsic connection with nature. There is no denying that biophilic design is rapidly expanding globally as an effective response to pressing issues in urban areas and built environments. From being a term few had heard of in 2012, when the author's research began, to one that is currently trending in a broad range of disciplines, the story of its emergence has

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

never been properly told. The story of the emergence of biophilic design is the story of a social movement and how a gathering of people with a common interest and passion can spark a global trend. The book and the stories within are not only engaging but also informative and educational, offering readers an in-depth understanding of what biophilic design is all about, and how to promote its implementation in their own built environment. Hopefully, they will inspire people to act, to campaign and to implement initiatives in their urban environment, with the confidence that they are capable of making a difference. The author spent three years researching the emergence of biophilic design, and why and how it was driven by certain people who championed the concept. Part of the author's research involved a three-month tour of ten North American cities, during which she interviewed 26 key players. These people ranged from community leaders, landscape architects, and academics, to the CEOs of NGOs and government leaders. The result is a collection of stories that illustrate the evolution of biophilic design, and how it was frequently born from a passion for, belief in and love of nature, as well as a response to an urban crisis.

In this beautifully illustrated guide, best-selling author Sally Coulthard demonstrates how to transform your living and working spaces into places that put you in

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

touch with nature. Eight inspiring chapters cover key elements for the 'biophilic home', including materials, views, colour and natural light. Each section explores the links between home, health and happiness, drawing on environmental research and neuroscience while making practical suggestions for bringing the natural world into your home. Bring nature indoors with flowers and plants, rediscover the innate pleasure of real fires and fresh air, and learn how to improve your mood and sleep patterns with dynamic light. Create a space filled with natural elements, patterns, nature's colours, fabrics and textures that lift your mood; find out why natural sounds and water are soothing; and learn how to make small changes that will inspire, invigorate and enrich your relationship with the natural world. 'As best-selling author and designer, Sally Coulthard, reveals in this guide, creating a 'biophilic home' can have a huge impact on your wellbeing; improving your mood and encouraging healthier sleep patterns...Be it plants, materials, colour or light, it's enlightening to see how small changes can make a big difference, while deepening your respect and correlation to the natural world.' FORBES Magazine 'How to embrace the natural world by transforming your interior spaces with specific materials, colours, views and sounds.' Gardens Illustrated 'Humans are mammals, programmed over millennia to respond to the natural world. We may be able to live and work in

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

man-made environments most of the time. But according to a new movement of "biophilic" designers and enthusiasts, we are not thriving...writer Sally Coulthard likens it to the practice of keeping animals in captivity, in surroundings ill-suited to their needs. "We live in a world that is fundamentally mismatched to our evolutionary adaptation - we don't see, hear and feel the things that we are programmed to respond to," she writes.' Financial Times

Repackaged with a new Afterword, this "valuable and entertaining" (New York Times Book Review) book explores how scientists are adapting nature's best ideas to solve tough 21st century problems. Biomimicry is rapidly transforming life on earth. Biomimicry study nature's most successful ideas over the past 3.5 billion years, and adapt them for human use. The results are revolutionizing how materials are invented and how we compute, heal ourselves, repair the environment, and feed the world. Janine Benyus takes readers into the lab and in the field with maverick thinkers as they: discover miracle drugs by watching what chimps eat when they're sick; learn how to create by watching spiders weave fibers; harness energy by examining how a leaf converts sunlight into fuel in trillionths of a second; and many more examples. Composed of stories of vision and invention, personalities and pipe dreams, Biomimicry is must reading for anyone interested in

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

the shape of our future.

As the ever-changing skylines of cities all over the world show, tall buildings are an increasingly important solution to accommodating growth more sustainably in today's urban areas. Whether it is residential, a workplace or mixed use, the tower is both a statement of intent and the defining image for the new global city. The Tall Buildings Reference Book addresses all the issues of building tall, from the procurement stage through the design and construction process to new technologies and the building's contribution to the urban habitat. A case study section highlights the latest, the most innovative, the greenest and the most inspirational tall buildings being constructed today. A team of over fifty experts in all aspects of building tall have contributed to the making of the Tall Buildings Reference Book, creating an unparalleled source of information and inspiration for architects, engineers and developers.

Abstracts of III International Scientific and Practical Conference

Cities will continue to accommodate the automobile, but when cities are built around them, the quality of human and natural life declines. Current trends show great promise for future urban mobility systems that enable freedom and connection, but not dependence. We are experiencing the phenomenon of peak car use in many global cities at the same

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

time that urban rail is thriving, central cities are revitalizing, and suburban sprawl is reversing. Walking and cycling are growing in many cities, along with ubiquitous bike sharing schemes, which have contributed to new investment and vitality in central cities including Melbourne, Seattle, Chicago, and New York. We are thus in a new era that has come much faster than global transportation experts Peter Newman and Jeffrey Kenworthy had predicted: the end of automobile dependence. In *The End of Automobile Dependence*, Newman and Kenworthy look at how we can accelerate a planning approach to designing urban environments that can function reliably and conveniently on alternative modes, with a refined and more civilized automobile playing a very much reduced and manageable role in urban transportation. The authors examine the rise and fall of automobile dependence using updated data on 44 global cities to better understand how to facilitate and guide cities to the most productive and sustainable outcomes. This is the final volume in a trilogy by Newman and Kenworthy on automobile dependence (*Cities and Automobile Dependence* in 1989 and *Sustainability and Cities: Overcoming Automobile Dependence* in 1999). Like all good trilogies this one shows the rise of an empire, in this case that of the automobile, the peak of its power, and the decline of that empire.

Kinship to Mastery is a fascinating and accessible exploration

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

of the notion of biophilia -- the idea that humans, having evolved with the rest of creation, possess a biologically based attraction to nature and exhibit an innate affinity for life and lifelike processes. Stephen R. Kellert sets forth the idea that people exhibit different expressions of biophilia in different contexts, and demonstrates how our quality of life in the largest sense is dependent upon the richness of our connections with nature. While the natural world provides us with material necessities -- food, clothing, medicine, clean air, pure water -- it just as importantly plays a key role in other aspects of our lives, including intellectual capacity, emotional bonding, aesthetic attraction, creativity, imagination, and even the recognition of a just and purposeful existence. As Kellert explains, each expression of biophilia shows how our physical, material, intellectual, emotional, and spiritual well-being is to a great extent dependent on our relationships with the natural world that surrounds us. Kinship to Mastery is a thought-provoking examination of a concept that, while not widely known, has a significant and direct effect on the lives of people everywhere. Because the full expression of biophilia is integral to our overall health, our ongoing destruction of the environment could have far more serious consequences than many people think. In a readable and compelling style, Kellert describes and explains the concept of biophilia, and demonstrates to a general audience the wide-ranging implications of environmental degradation. Kinship to Mastery continues the exploration of biophilia begun with Edward O. Wilson's landmark book *Biophilia* (Harvard University Press, 1984) and followed by *The Biophilia Hypothesis* (Island Press, 1993), co-edited by Wilson and Kellert, which brought together some of the most creative scientists of our time to explore Wilson's theory in depth. In this immensely practical book, Timothy Beatley sets out to answer a simple question: what can Americans learn from

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

Australians about “greening” city life? Green Urbanism Down Under reports on the current state of “sustainability practice” in Australia and the many lessons that U.S. residents can learn from the best Australian programs and initiatives. Australia is similar to the United States in many ways, especially in its “energy footprint.” For example, Australia’s per capita greenhouse gas emissions are second only to those of the United States. A similar percentage of its residents live in cities (85 percent in Australia vs. 80 percent in the United States). And it suffers from parallel problems of air and water pollution, a national dependence on automobiles, and high fossil fuel consumption. Still, after traveling throughout Australia, Beatley finds that there are myriad creative responses to these problems—and that they offer instructive examples for the United States. Green Urbanism Down Under is a very readable collection of solutions. Although many of these innovative solutions are little-known outside Australia, they all present practical possibilities for U.S. cities. Beatley describes “green transport” projects, “city farms,” renewable energy plans, green living programs, and much more. He considers a host of public policy initiatives and scrutinizes regional and state planning efforts for answers. In closing, he shares his impressions about how Australian results might be applied to U.S. problems. This is a unique book: hopeful, constructive, and filled with ideas that have been proven to work. It is a “must read” for anyone who cares about the future of American cities.

A forward looking book on sustainable design that describes problems and then, by providing a different way to conceptualise design and development, leads on to examples of regenerative solutions. Its aim is to move the discussion away from doing less, but still detracting from our ecological capital, to positively contributing and adding to this capital.

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

This book offers a hopeful response to the often frightening changes and challenges we face; arguing that we can actively create a positive and abundant future through mindful, contributive engagement that is rooted in a living systems based worldview. Concepts and practices such as Regenerative Development, Biophilic Design, Biomimicry, Permaculture and Positive Development are explored through interviews and case studies from the built environment to try and answer questions such as: 'How can projects focus on creating a positive ecological footprint and contribute to community?'; How can we as practitioners restore and enrich the relationships in our projects?; and 'How does design focus hope and create a positive legacy?'

A natural design for living well. American psychologist Edward O. Wilson popularised the term Biophilia - meaning a "love of nature" and a need to connect to the natural world - in the 1980s, after observing how increasing rates of urbanization were leading to people feeling a disconnect from the natural world. We all need biophilia in our lives, and here author Sally Coulthard demonstrates how best to incorporate the fundamentals into everyday life. Examining the branches of a "biophilic home", the ten inspiring chapters incorporate science, psychology and practical decor advice for making positive and accessible changes in the home or at work. Chapters include: Air & Temperature - why heat and airflow matter in a healthy home; Forms & Patterns - how to take inspiration from nature to decorate your home; Light & Rhythms - creating spaces to enhance the natural rhythm of passing seasons, plentiful daylight and dark nights; Materials & Decor - importance of using minimally processed material to reflect local ecology; Color - how to use tones and shades that compliment or contrast.

"When nature inspires our architecture-not just how it looks but how buildings and communities actually function-we will

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

have made great strides as a society. Biophilic Design provides us with tremendous insight into the 'why,' then builds us a road map for what is sure to be the next great design journey of our times." -Rick Fedrizzi, President, CEO and Founding Chairman, U.S. Green Building Council "Having seen firsthand in my company the power of biomimicry to stimulate a wellspring of profitable innovation, I can say unequivocally that biophilic design is the real deal. Kellert, Heerwagen, and Mador have compiled the wisdom of world-renowned experts to produce this exquisite book; it is must reading for scientists, philosophers, engineers, architects and designers, and-most especially-businesspeople. Anyone looking for the key to a new type of prosperity that respects the earth should start here." -Ray C. Anderson, founder and Chair, Interface, Inc. The groundbreaking guide to the emerging practice of biophilic design This book offers a paradigm shift in how we design and build our buildings and our communities, one that recognizes that the positive experience of natural systems and processes in our buildings and constructed landscapes is critical to human health, performance, and well-being. Biophilic design is about humanity's place in nature and the natural world's place in human society, where mutuality, respect, and enriching relationships can and should exist at all levels and should emerge as the norm rather than the exception. Written for architects, landscape architects, planners, developers, environmental designers, as well as building owners, Biophilic Design: The Theory, Science, and Practice of Bringing Buildings to Life is a guide to the theory, science, and practice of biophilic design. Twenty-three original and timely essays by world-renowned scientists, designers, and practitioners, including Edward O. Wilson, Howard Frumkin, David Orr, Grant Hildebrand, Stephen Kieran, Tim Beatley, Jonathan Rose, Janine Benyus, Roger Ulrich, Bert Gregory,

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

Robert Berkebile, William Browning, and Vivian Loftness, among others, address: * The basic concepts of biophilia, its expression in the built environment, and how biophilic design connects to human biology, evolution, and development. * The science and benefits of biophilic design on human health, childhood development, healthcare, and more. * The practice of biophilic design-how to implement biophilic design strategies to create buildings that connect people with nature and provide comfortable and productive places for people, in which they can live, work, and study. Biophilic design at any scale-from buildings to cities-begins with a few simple questions: How does the built environment affect the natural environment? How will nature affect human experience and aspiration? Most of all, how can we achieve sustained and reciprocal benefits between the two? This prescient, groundbreaking book provides the answers.

Architecture and Health recognizes the built environment and health as inextricable encouraging a new mind-set for the profession. Over 40 international award-winning projects are included to explore innovative design principles linked to health outcomes. The book is organized into three interdependent health domains—individual, community, and global—in which each case study proposes context-specific architectural responses. Case studies include children’s hospitals, rehabilitation facilities, elderly housing, mental health facilities, cancer support centers, clinics, healthy communities, healthcare campuses, wellness centers, healing gardens, commercial offices, infrastructure for developing countries, sustainable design, and more. Representing the United States, Africa, Asia, Europe, and Australia, each author brings a new perspective to health and its related architectural response. This book brings a timely focus to a subject matter commonly constricted by normative building practices and transforms the dialogue into one of creativity

Download File PDF Biophilic Design The Theory Science And Practice Of Bringing Buildings To Life

and innovation. With over 200 color images, this book is an essential read for architects, designers, and students to explore and analyze designed environments that promote health and well-being.

[Copyright: 82958add89249db380c0d65f8774747a](#)