

Symmetry As A Developmental Principle In Nature And Art


Author :Werner Hahn / **Category :**Science / **Total Pages :** 532 pages

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Summary : Free symmetry as a developmental principle in nature and art pdf download - looking beyond the boundaries of various disciplines the author demonstrates that symmetry is a fascinating phenomenon which provides endless stimulation and challenges he explains that it is possible to readapt art to the sciences and vice versa by means of an evolutionary concept of symmetry many pictorial examples are included to enable the reader to fully understand the issues discussed based on the artistic evidence that the author has collected he proposes that the new ars evolutoria can function as an example for the sciences the book is divided into three distinct parts each one focusing on a special issue in part i the phenomenon of symmetry including its discovery and meaning is reviewed the author looks closely at how vitruvius polyclitus democritus plato aristotle plotinus augustine alberti leonardo da vinci and durer viewed symmetry this is followed by an explanation on how the concept of symmetry developed the author further discusses symmetry as it appears in art and science as well as in the modern age later he expounds the view of symmetry as an evolutionary concept which can lead to a new unity of science in part ii he covers the points of contact between the form-developing process in nature and art he deals with biological questions in particular evolution the collection of new and precise data on perception and knowledge with regard to the postulated reality of symmetry leads to further development of the evolutionary theory of symmetry in part iii the author traces the enormous treasure of observations made in nature and culture back to a few underlying structural principles he demonstrates symmetry as a far-reaching leading structuring causal element of evolution as the idea lying behind nature and culture numerous controllable reproducible double-mirror experiments on a new stereoscopic vision verify a symmetrization theory of perception contents on the concept and significance of symmetry the discovery of symmetry on the term symmetry from the antiquity to the renaissance the development of an exact concept of symmetry through scientific progression symmetry and asymmetry as evolutionary factors in nature the development of an evolutionary concept of symmetry evolutionary symmetrizations in two and three dimensions on the syntax and semantics of symmetry on the

problem of organic form development can an artist approach the world and its content only in a metaphorical way evolution fairy tale theory or fact can we experience evolution directly evolutionism ars evolutoria the theory of light colour and form morphogenesis morpho-mutability and morpho-evolution as causal form theory on the question whether there can be a pre-object pre-morph life process of form in nature and art preliminary proof for the principle of symmetrization as a form of movement in space and time causes and processes of morphological evolution essential facts and interpretation the architects symmetrization and asymmetrization as the bases for the perception of objects and order as well as insight-behaviour and cultural evolution reanimation of modernism using integrating neo-renaissance evolutionary symmetry theory and universal evolution theory readership general biologists and artists keywords evolutionary symmetry theory asymmetrization symmetrization principle form variation mutation ars evolutoria science art double-mirror-experiments cultural evolution neo-evolutionism theory of protoform bifurcation morphology evolutionary geometry thus it is a great merit to have unrolled the phenomena of symmetries in their full breadth to a monumental work whether in quanta atoms and crystals or in corporeal forms senses and brains or in the forms of all the artifacts that have originated from human activity only then will we become aware of our potentialities the concert of relations that joins the inorganic and the organic our sensibilities our thoughts and our deeds that which reciprocally unites nature and culture in the human psyche from the foreword by professor rupert riedl this book is readable even for those who have not made detailed studies in the phenomena of symmetry asymmetry it must be kept in reach to the desk of any researcher of the evolution and any specialist regardless of his her discipline of symmetry phenomena symmetry culture and science

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