

基于Fibonacci数列规律的感官传达设计美学研究

摘 要

Fibonacci数列具有至关重要的美学规律.在设计作品的比例关系中能呈现出更好的感官效果.本文从Fibonacci数列出发,以数学理论知识与设计美学相结合的方式,对Fibonacci数列做进一步探究.通过对自然界的动植物、西方建筑的构造、我国八卦阵的观察与研究发现其中隐藏着以美的形式存在着Fibonacci数列的规律.所以我选择挖掘Fibonacci数背后的黄金分割率,巧将该规律更好地体现在创作和设计上,呈现别样的数学美.再通过对日常生活设计不同领域中Fibonacci数列定律的比较研究与分析,首先尝试找到设计中感官传达与理论知识的平衡点,其次拓展艺术设计思想,不仅有助于设计创新与发展,而且还有助于该规律的创新设计,寻找设计发展的有效途径.本研究不仅理论意义重大,而且能可持续性、深层地进行研究.

关键词: 黄金分割, Fibonacci数列, 对数螺线

Abstract

The Fibonacci sequence has a vital aesthetic law. It can show better sensory effect in the proportional relationship of design works. This article analyzes the Fibonacci sequence from the perspective of the Fibonacci sequence and the combination of mathematical culture and art form. Through the observation and research of animals and plants in nature, the construction of Western architecture, and gossip array in China, it is found that the law of the Fibonacci number sequence in the form of beauty is hidden. So I chose to mine the golden section rate behind the Fibonacci number. This law is better reflected in the creation and design, presenting a different kind of mathematical beauty. Then through a comparative study and analysis of the Fibonacci number law in different fields of daily life design, first try to find the balance between sensory communication and theoretical knowledge in design , Secondly, expand artistic design ideas,not only contributes to design innovation and development, but also to the innovative design of the law, to find effective ways of design development. This research is not only of great theoretical significance, but also sustainable and deep research.

Keywords: Golden section, Fibonacci sequence, Logarithmic spiral

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