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Benefiting from recycled waste in furniture manufacturing to realize environmental sustainability

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Abstract:

The principle of recycling has received a lot of attention during the past few years and has covered most fields, the most important of which is the field of interior design and the furniture industry. Recycling relies on the use and utilization of unwanted and discarded product waste. Here lies the research problem in how to deal with those wastes that cause environmental pollution and waste of economic resources to become new products and an important resource for the economy through recycling. Therefore, the research aims to identify appropriate design trends for recycling and using waste to turn it into useful materials that can be used in interior design and furniture industry to achieve environmental sustainability. Hence the importance of research in highlighting the role of the designer in providing new and innovative designs, with the need for a philosophy to design recycled furniture based on firm foundations and standards. The research followed the descriptive analytical approach by addressing some materials that can be recycled by presenting different models for them, the inductive approach and an applied study of some design ideas that depend on recycling waste and employing it in the field of interior design and furniture. The research presents some design methods for some models that have been modified in order to be reused or recycled. The research recommends that factories should develop future plans for recycling and manufacturing products to reduce waste in the post-use stage. Adopting the principle of recycling by exploring appropriate uses through new design ideas that differ from traditional frameworks, saves a large amount of wasted resources that can be recycled again in addition to protecting the environment from pollution resulting from those wastes, which is advocated by all bodies and institutions that seek to respect environmental values and activate the elements of environmental sustainability.

Keywords:

Recycling- furniture industry- environmental sustainability- waste

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