

## MATERIAL - MAN - SPACE

The Factors Influencing The Decision Making  
In Designing New Building Materials

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### ABSTRACT

As it happens in changes and improvements of buildings, turning towards the scientific differentiations in designing new building materials, which are forming them, should be inescapable. The benefits of approaching to the subject in a broader and detailed manner can be achieved when building materials' relations with man, environment, ecological balance, etc. are examined in a systematic framework. Scientific and technological improvements, quality expectations in living standards in the design, production and utilization of the new demands related to buildings, altogether actualize such important variations and differentiations.

The new terms or definitions such as smart houses, office houses, small but flexible and functional spaces are the facts outcome from this process. However, this change and improvement create a locked duality in material - man and space triangle. Is the designing of a material a process occurring parallel to the design of the space or, will the design of new spaces be influenced by basically from material design process? Is it expectable or should we expect that these two processes will run parallel to each other or not? In any circumstances, the emphasized point here is that the **material design** problem, at any level, is a multi sided affecting factor for decision making or applications. We see that, even very primitive materials which were utilized rationally and economically, with their characteristic treatments did not change ecological balances in ancient periods as well. That's why, it is very natural that; this material production and utilization procedure automatically presents a designing process peculiarity.

In addition, the important problems occurring in housing problems in Turkey due to interior architectural design and applications, used materials, technologies and details, directly or indirectly causing economical losses related to their inter-defects, can all be directly correlated with material designs.

The aboveframed main subject of this study is the new building material design necessity, and the examination of the influencing factors of decision making at this stage. When we approach the subject as a designer, we may easily underline the factor that even the smallest design faults in materials will directly influence the multi-sided functionality of buildings and their components. When we look from producer or consumer point of view, we see that on one hand there are service **suppliers** and on the other hand there are the **demanders** to these facilities those tie as a properly organized education and training system serving very rationally at the basis of the decision making process of both groups.