Algunas nociones que los diseñadores industriales deben tener sobre ciencia de materiales [

2020

text (article)

Analítica

Today's Mexican industrial designers possess different competencies that reflect the institutional backgrounds that trained them, yet we distinguish a common trait among them: a limited training in technical and manufacturing topics. On the other hand, many of the tasks related to industrial production are handled by the product designer, because companies (small or medium) out of habit, or for economic reasons, do not have designers and engineers on their staff working together, and at best designers are assisted by engineers, usually distant from the design process. All of this leads to a loss of opportunities for product innovation and the optimization of the production facilities of the companies where the industrial designer participates. Here we introduce a set of basic concepts that seek to provide tools and strategies to, if not develop an educational model for industrial design, have a knowledge base that allows the industrial designer to understand materiality from science and engineering toward his profession, that is, building a transdisciplinary bridge. These notions are presented in three groups: knowledge of the menu of materials, the effect of the microstructure on material properties, and mechanical and thermal properties
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Editorial: 2020

Tipo Audiovisual: transdisciplina en el diseño selección de materiales en el proceso de diseño ciencia de materiales y diseño propiedades de los materiales educación técnica del diseñador industrial transdiscipline in design materials selection materials science and design materials properties technical education in industrial design

Documento fuente: Estudios sobre Arte Actual, ISSN 2340-6062, Nº. 8, 2020 (Ejemplar dedicado a: Congreso Internacional Idea'20. Facultad de Artes de la Universidad de Cuenca (Ecuador)), pags. 37-48

Nota general: application/pdf

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Lengua: Spanish

Enlace a fuente de información: Estudios sobre Arte Actual, ISSN 2340-6062, Nº. 8, 2020 (Ejemplar dedicado a: Congreso Internacional Idea'20. Facultad de Artes de la Universidad de Cuenca (Ecuador)), pags. 37-48
