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|| Introduction of Engineering Materials and their Properties ||

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Introduction to Engineering Material and Types Of Engineering Materials General Definition of Material : Classification Of Materials : 1. According to General Properties; 2. According to Nature of Materials; 3. According to Applications ; Factors Affecting Material

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Selection

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The starting point is the entire range of engineering materials. At this stage, it is essential to open up channels in different directions. A steel may be the best material for one design ... where it is summed over all the relevant properties. Materials and Process Selection for Engineering Design: Mahmoud Farag 19. Comparing and ranking ...

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In the material selection phase, the minimum and maximum properties are examined. The designer can modify the design and/or process for possible improvements or adjustments because he knows the limits of the materials exactly. Also in case of a failure, he has the ability to redesign it easily.

Why Selection of Engineering Materials is Important ...

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Selected materials are examined for strength and stiffness values, and then potential materials are further inspected for other desired properties. Material selection is one of the prime concerns in mechanical engineering design as mechanical engineers possess great deals with various loads and temperature variations.

Basic Facts to Consider for Material Selection in Engineering

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