

Materials Selection as an Interdisciplinary Technical Activity: Basic Methodology and Case Studies

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Received: January 24, 1999; Revised: April 7, 2000

The technical activity known as Materials Selection is reviewed in its concepts and methodologies. Objectives and strategies are briefly presented and two important features are introduced and discussed: (i) Merit Indices: a combination of materials properties, which maximises the objectives chosen by the designer and (ii) Materials Properties Maps: a bi-dimensional space whose coordinates are pairs of properties in which materials can be plotted and compared directly in terms of their merit indices. A general strategy for the deduction of these indices is explained and a formal methodology to establish a ranking of candidate materials when multiple constraints intervene is presented. Finally, two case studies are discussed in depth, one related to materials substitution in the context of mechanical design and a less conventional case linking material selection to physical comfort in the home furniture industry.

Keywords: materials selection; design; merit indices

1. Introduction

Engineers are trained to execute many different technical activities such as product design, process optimisation, plant maintenance and quality control, to name only a few. Historically, their expertise has been adjusted to demand by specialisation, in other words, mechanical, materials, industrial, chemical, electronic engineers etc., each acting within defined boundaries, were until recently the typical human resource of all industrial/technical activities. Presently, however, in the scenario designed by modern industry the various technical fields overlap to a large extent. An important consequence of such impingement is that interdisciplinary knowledge is replacing strict specialisation and that decision-making processes are becoming increasingly complex leading to the aggregation of experts into teamwork. This means that professionals with different bodies of knowledge combine around a common problem, each providing its own expertise and, above all, communicating across it. The quality of this communication is determinant for the success of the whole enterprise and the main ingredient of that quality is the sharing and cross-fertilisation of both knowledge and information.

One of the technical activities in which interdisciplinarity and the benefits of teamwork are particularly strong is materials selection (MS). Within this interdisciplinarity

two levels may be distinguished. The former is essentially internal; in order to be carried out properly, MS must be combined with process selection (PS), thus integrating materials, metallurgical, process and production engineers. The external level is more complex, since multiple interactions between design, materials, process capabilities, market size and nature, cost, environmental impact and other constraints, must be taken into account¹. Thus, at the internal level these interactions are easily identified: for instance, material and process; mechanical properties and stress analysis; product design and shaping characteristics of the candidate materials, etc. On the other hand, an example of interdisciplinarity at the external level would be the cost assessment of a particular product as a function of population buying power patterns forecast. It is apparent that the expertise required for decision-making processes of this nature must be found outside the strictly technical team, which was sufficient only at the internal level. Thus, depending of the economic weight of the decision it would not be exaggerated to say that engineers, marketing specialists, psychologists, demographers and, perhaps, political scientists are all equally necessary for such enterprise.

Figure 1 shows schematically the interactive or feedback relationships joining design and MS around a common objective. Interactions are limited to the level of the present paper's concern, that is, the internal level. In this figure, it

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