reader in understanding the basic concepts, so that more difficult problems can be attempted. The intent is to guide the reader into computer-aided design. Extensive bibliographies are included at the end of each chapter. The book would be of greatest interest to those involved in CAD applications and would be suitable for use as a text for introductory CAD courses.


Reviewed by S. W. Zewari

Due to the large variety of polymeric materials and varying formulations, a comprehensive coverage of each of these materials seems to be difficult at best. This book contains discussions of a large segment of design considerations dealing with these materials. Fifteen chapters in all provide an excellent understanding of the properties and potential problems associated with these materials. The scope varies from one chapter to the next and the reader, depending on his/her background might need to consult references provided at the end of each chapter or beyond. Inclusion of a series of tables indicating chemical, physical, and mechanical properties of common polymeric materials (including optical and electrical; the coefficient of friction, colorability, flame retardancy, processing techniques, machinability, recommended adhesives, available forms, common usage, trade names, approximate prices, and manufacturers) would have proved extremely valuable for comparison purposes. I hope that these will be included in the next printing and/or in Part B. This is the kind of book which is easy to read and stimulates an awareness of potentially costly design mistakes. I therefore recommend that graduating mechanical design students read this book. It would definitely prove to be a valuable reference for mechanical designers in electrical/electronic and similar industries.

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