



Biomaterials, A textbook

Thomas Boland

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This study guide is designed to supplement course material that will be delivered in an introductory junior or senior level biomaterials course. The guide will focus on an engineering approach to the topic, rather than on memorizing the various materials and their properties. However, useful materials and tissue properties will be listed in the appendix. Much of the information in this guide can be found in other textbooks from the following disciplines: materials science, chemistry, physics, physiology, molecular biology and histology. This book merely guides the student through the various concepts of those disciplines as they relate to biomaterials science and technology. It may thus be a useful help for students that may at times be overwhelmed by the different concepts and disciplines that are intertwined in this area. This guide will help the student by presenting the material in a clear, concise manner, working through problems, and providing exercises. Emphasis will be placed on having the student discover the reasons behind the use of a particular material as biomaterial.

Many of the biomaterials texts will not mention those basic properties at all, assuming the reader had acquired this basic knowledge during his or her undergraduate studies. These texts were written during a time when the study of biomaterials science was exclusively the domain of graduate students. Today's many bioengineering undergraduate programs include biomaterials science in their course offerings, thus assuming pre-knowledge of materials science is no longer warranted.

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