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Titolo	Bionics by Examples : 250 Scenarios from Classical to Modern Times // by Werner Nachtigall, Alfred Wisser
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Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (325 p.)
Disciplina	531 571.4 610.28 620
Soggetti	Biomedical engineering Biophysics Mechanics Systems biology Biological systems Physics Biomedical Engineering and Bioengineering Biological and Medical Physics, Biophysics Classical Mechanics Systems Biology Applied and Technical Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Prehistory -- Early History -- Classical Period -- Modern -- Materials and Structures -- Styling and Design -- Constructions and Devices -- Building and Climate Control -- Robotics and Locomotion -- Sensors and Neural Control -- Anthro- and Biomedical Technology -- Procedures and Expiries -- Evolution and Optimization -- Systemic and Organization -- Concepts and Documentation -- Main Focuses and Education.
Sommario/riassunto	Bionics means learning from the nature for the development of

technology. The science of "bionics" itself is classified into several sections, from materials and structures over procedures and processes until evolution and optimization. Not all these areas, or only a few, are really known in the public and also in scientific literature. This includes the Lotus-effect, converted to the contamination-reduction of fassades and the shark-shed-effect, converted to the resistance-reduction of airplanes. However, there are hundreds of highly interesting examples that contain the transformation of principles of the nature into technology. From the large number of these examples, 250 were selected for the present book according to "prehistory", "early-history", "classic" and "modern time". Most examples are new. Every example includes a printed page in a homogeneous arrangement. The examples from the field "modern time" are joint in blocks corresponding to the sub-disciplines of bionics.
