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The limbs of an animal must exist and function as a single integrated entity, which imposes at least two requirements on the constituent muscles: The muscles collectively share a common volume, ...

These peer-reviewed papers were selected from [Materials Science and Engineering Applications], which provides a forum where researchers, engineers, academics and industrial professionals from all over the world can present their research results and development activities in materials science and engineering. It also provides opportunities for the delegates to exchange new ideas and experiences face-to-face, establish business or research contacts and find global partners for future collaboration. It also creates an atmosphere in which young talent has the opportunity to mix with professors and captains of industry. The proceedings provide an international medium for the publication of theoretical and experimental studies related to the load-bearing capacity of materials as influenced by their basic properties, processing history, microstructure and operating environment. Volume is indexed by Thomson Reuters CPCI-S (WoS).

The revised edition of this renowned and bestselling title is the most comprehensive single text on all aspects of biomaterials science. It provides a balanced, insightful approach to both the learning of the science and technology of biomaterials and acts as the key reference for practitioners who are involved in the applications of materials in medicine. Over 29,000 copies sold, this is the most comprehensive coverage of principles and applications of all classes of biomaterials: "the only such text that currently covers this area comprehensively" - Materials Today Edited by four of the best-known figures in the biomaterials field today; fully endorsed and supported by the Society for Biomaterials Fully revised and expanded, key new topics include of tissue engineering, drug delivery systems, and new clinical applications, with new teaching and learning material throughout, case studies and a downloadable image bank

Welcome to IM'97! We hope you had the opportunity to attend the Conference in beautiful San Diego. If that was the case, you will want to get back to these proceedings for further readings and reflections. You'll find e-mail addresses of the main author of each paper, and you are surely encouraged to get in touch for further discussions. You can also take advantage of the CNOM (Committee on Network Operation and Management) web site where a virtual discussion agora has been set up for IM'97 (URL: <http://www.csel.stet.it/CNOMWWWIIM97.html>). At this site you will find a brief summary of discussions that took place in the various panels, and slides that accompanied some of the presentations--all courtesy of the participants. If you have not been to the Conference, leafing through these proceedings may give you food for thought. Hopefully, you will also be joining the virtual world on the web for discussions with authors and others who were at the Conference. At IM'97 the two worlds of computer networks and telecommunications systems came together, each proposing a view to management that stems from their own paradigms. Each world made clear the need for end-to-end management and, therefore, each one stepped into the other's field. We feel that there is no winner but a mutual enrichment. The time is ripe for integration and it is likely that the next Conference will bear its fruit.

GlobalSoilMap: Basis of the global spatial soil information system contains contributions that were presented at the 1st GlobalSoilMap conference, held 7-9 October 2013 in Orléans, France. These contributions demonstrate the latest developments in the GlobalSoilMap project and digital soil mapping technology for which the ultimate aim is to produce a high resolution digital spatial soil information system of selected soil properties and their uncertainties for the entire world. GlobalSoilMap: Basis of the global spatial soil information system aims to stimulate capacity building and new incentives to develop full GlobalSoilMap products in all parts of the world.

As we approach the end of the present century, the elementary particles of light (photons) are seen to be competing increasingly with the elementary particles of charge (electrons/holes) in the task of transmitting and processing the insatiable amounts of information needed by society. The massive enhancements in electronic signal processing that have taken place since the discovery of the transistor, elegantly demonstrate how we have learned to make use of the strong interactions that exist between assemblages of electrons and holes, disposed in suitably designed geometries, and replicated on an increasingly fine scale. On the other hand, photons interact extremely weakly amongst themselves and all-photon active circuit elements, where photons control photons, are presently very difficult to realise, particularly in small volumes. Fortunately rapid developments in the design and understanding of semiconductor injection lasers coupled with newly recognized quantum phenomena, that arise when device dimensions become comparable with electronic wavelengths, have clearly demonstrated how efficient and fast the interaction between electrons and photons can be. This latter situation has therefore provided a strong incentive to devise and study monolithic integrated circuits which involve both electrons and photons in their operation. As chapter I notes, it is barely fifteen years ago since the first demonstration of simple optoelectronic integrated circuits were realised using m-V compound semiconductors; these combined either a laser/driver or photodetector/preamplifier combination.

This volume identifies new theoretical and empirical directions to the study of employee mobility, covering broad sets of theoretical frameworks—which are embedded in strategic, organizational, sociological or entrepreneurial theories—and of empirical approaches—which cover industry, firm, team and individual levels of analysis.

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