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Peter Pirolli covers information foraging theory (IFT), a theory in adaptive information interaction. IFT analyses what people do to make sense of the huge amount of information available on the Internet and how they navigate it.

This revised and significantly expanded edition contains a rigorous examination of key concepts, new chapters and discussions within existing chapters, and added reference materials in the appendix, while retaining its classroom-tested approach to helping readers navigate through the deep ideas, vast collection of the fundamental methods of structural analysis. The authors show how to undertake the numerous analytical methods used in structural analysis by focusing on the principal concepts, detailed procedures and results, as well as taking into account the advantages and disadvantages of each method and sphere of their effective application. The end result is a guide to mastering the many intricacies of the range of methods of structural analysis. The book differentiates itself by focusing on extended analysis of beams, plane and spatial trusses, frames, arches, cables and combined structures; extensive application of influence lines for analysis of structures; simple and effective procedures for computation of deflections; introduction to plastic analysis, stability, and free and forced vibration analysis, as well as some special topics. Ten years ago, Professor Igor A. Karnovsky and Olga Lebed crafted a must-read book. Now fully updated, expanded, and titled Advanced Methods of Structural Analysis (Strength, Stability, Vibration), the book is ideal for instructors, civil and structural engineers, as well as researches and graduate and post graduate students with an interest in perfecting structural analysis.

This volume contains the papers presented at IALCCE2016, the fifth International Symposium on Life-Cycle Civil Engineering (IALCCE2016), to be held in Delft, The Netherlands, October 16-19, 2016. It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R. Khan lecture, keynote lectures, and technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment, maintenance and rehabilitation, life-cycle cost of structures and infrastructures, life-cycle performance of special structures, and life-cycle oriented computational tools. The aim of the editors is to provide a valuable source for anyone interested in life-cycle of civil infrastructure systems, including students, researchers and practitioners from all areas of engineering and industry.

Tubular structures remain a source of architectural inspiration and practical solutions to difficult performance specifications. New developments are covered in this text, which contains papers on design innovations and applications presented at an international symposium held in Australia in 1994.

The goal of advancing eco cities often remains confined to political or technological issues. This book establishes a focus on architectural and infrastructural

design approaches to sustainable urban development. Taking as a basis the critical assessment of the five prototypical eco cities of Vauban/Freiburg, solarCity/Linz, Valdespartera, Sarriguren/Pamplona und Bo01/Malmø., the book identifies fields in which architectural and urban designers can use their creative skills and methods to achieve sustainable results on the urban scale. The themes of Materialize, Mobilize, Simulate and Transform highlight the shift from the manipulation of quantitative variables to interactive relationships effecting qualitative outcomes in design. For example, Materialize explores the potential of eco-design beyond the traditional palette of materials to show how spatial boundaries can be re-imagined as gradients of conditioned versus unconditioned space, working with climatic conditions rather than material boundaries to help generate new forms of urban architecture.

This lecture describes a theoretical framework for the behavioural sciences that holds high promise for theory-driven research and design in Human-Computer Interaction. The framework is designed to tackle the adaptive, ecological, and bounded nature of human behaviour. It is designed to help scientists and practitioners reason about why people choose to behave as they do and to explain which strategies people choose in response to utility, ecology, and cognitive information processing mechanisms. A key idea is that people choose strategies so as to maximise utility given constraints. The framework is illustrated with a number of examples including pointing, multitasking, skim-reading, online purchasing, Signal Detection Theory and diagnosis, and the influence of reputation on purchasing decisions. Importantly, these examples span from perceptual/motor coordination, through cognition to social interaction. Finally, the lecture discusses the challenging idea that people seek to find optimal strategies and also discusses the implications for behavioral investigation in HCI.