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*Kaplan MCAT Biology Review* Academic Press

Since publication of the first edition, huge developments have taken place in sensory biology research and new insights have been provided in particular by molecular biology. These show the similarities in the molecular architecture and in the physiology of sensory cells across species and across sensory modality and often indicate a common ancestry dating back over half a billion years. Biology of Sensory Systems has thus been completely revised and takes a molecular, evolutionary and comparative approach, providing an overview of sensory systems in vertebrates, invertebrates and prokaryotes, with a strong focus on human senses. Written by a renowned author with extensive teaching experience, the book covers, in six parts, the general features of sensory systems, the mechanosenses, the chemosenses, the senses which detect electromagnetic

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#### **Assessment Reform in Science** Bushra Arshad

The conclusions and recommendations made in this book are derived from a study of ten teachers in Hong Kong as they tried to change their practice following a reform of the Hong Kong assessment system. Hong Kong is simply a context that provided the opportunity to gather very rich and informative data on issues pertaining to assessment reforms which also have very wide implications in many countries' contexts. The text is written in a lucid and easy-to-read style.

#### *Bigheaded Carps* Petrogav International

Developing Practical Nursing Skills helps you learn and perfect the practical skills required to become a qualified nurse. Adopting a patient-focused and caring approach, this essential text helps you integrate nursing values alongside physical skills in your daily practice. Now in its fifth edition, the text takes into account the NMC standards of proficiency and is relevant to nurses across all fields. Key features of the book include: i) New chapters on mental health assessment and end-of-life care, along with expanded content on sleep, pain and medication management. ii) Full-colour text design with clear illustrations and clinical photographs to aid visual learning. iii) Reader-friendly style with learning outcomes, activities and reflection points to help you link theory to practice. iv) Scenarios from a range of settings, including community, mental health and learning disabilities nursing. v) A focus on adults and young people, and with 'pointers' on caring for children and pregnant women to promote a lifespan approach. This is a complete clinical skills resource for all pre-registration nursing students. It is also a useful text for nursing associate and healthcare support workers.

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Bushra Arshad

This book presents the basic principles for evaluating water quality and treatment plant performance in a clear, innovative and didactic way, using a combined approach that involves the interpretation of monitoring data associated with (i) the basic processes that take place in water bodies and in water and wastewater treatment plants and (ii) data management and statistical calculations to allow a deep interpretation of the data. This book is problem-oriented and works from practice to theory, covering most of the information you will need, such as (a) obtaining flow data and working with the concept of loading, (b) organizing sampling programmes and measurements, (c) connecting laboratory analysis to data management, (e) using numerical and graphical methods for describing monitoring data (descriptive statistics), (f) understanding and reporting removal efficiencies, (g) recognizing symmetry and asymmetry in monitoring data (normal and log-normal distributions), (h) evaluating compliance with targets and regulatory standards for effluents and water bodies, (i) making comparisons with the monitoring data (tests of hypothesis), (j) understanding the relationship between monitoring variables (correlation and regression analysis), (k) making water and mass balances, (l) understanding the different loading rates applied to treatment units, (m) learning the principles of reaction kinetics and reactor hydraulics and (n) performing calibration and verification of models. The major concepts are illustrated by 92 fully worked-out examples, which are supported by 75 freely-downloadable Excel spreadsheets. Each chapter concludes with a checklist for your report. If you are a student, researcher or practitioner planning to use or already using treatment plant and water quality monitoring data, then this book is for you! 75 Excel spreadsheets are available to download.

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Recent government publications like "Benchmarks for Scientific Literacy" and "Science for all Americans" have given teachers a mandate for improving science education in America. What we know about how learners construct meaning--particularly in the natural sciences--has undergone a virtual revolution in the past 25 years. Teachers, as well as researchers, are now grappling with how to better teach science, as well as how to assess whether students are learning. *Assessing Science Understanding* is a companion volume to *Teaching Science for Understanding*, and explores how to assess whether learning has taken place. The book discusses a range of promising new and practical tools for assessment including concept maps, vee diagrams, clinical interviews, problem sets, performance-based assessments, computer-based methods, visual and

observational testing, portfolios, explanatory models, and national examinations.

*A Framework for K-12 Science Education* Bushra Arshad

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, *A Framework for K-12 Science Education* proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. *A Framework for K-12 Science Education* outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. *A Framework for K-12 Science Education* is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

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**Biology** Bushra Arshad

This book is a detailed risk assessment and biological synopsis of the bigheaded carps of the genus *Hypophthalmichthys*, which includes the bighead, silver, and largescale silver carps. It summarizes the scientific literature describing their biology, ecology, uses, ecological effects, and risks to the environment. -- Publisher's description.

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