Global Materials Compliance Handbook
John Phyper, Philippe Ducas and Peter Baish, John Wiley & Sons, New York, NY, 477 pp., $89.95, 2004

To deal with global legislation pertinent to hazardous chemicals and/or dangerous goods, more and more organizations are developing their own materials compliance systems (MCS). Creating an MCS from scratch can be labor-intensive and typically takes several years. The resulting MCS, if not designed and implemented properly, may lack key integration points to other systems within the organization, only address a small portion of legislation pertinent to the organization’s activities, and become outdated within a relatively short period of time. Until now, the need for a standard set of guidelines for these systems at the global level has not been available. This handbook consolidates all relevant regulatory issues that affect a business, such as purchasing, research and development, testing, manufacturing and distribution of regulated materials. Country-by-country regulatory coverage includes: requirements for chemical registration, notification, and listing; requirements for MSDS and product labels; and requirements for transportation, import and export.

The Handbook of Advanced Materials
James K. Wessel, John Wiley & Sons, Hoboken, NJ, 645 pp., $125.00, 2004

With the pace of technological development quickening, choosing the right materials for a design can be a major factor in a product’s success or failure. The Handbook of Advanced Materials brings together the latest information designers and product engineers need to know about these new materials and their properties. Taking a comparative approach geared towards problem-solving and material selection, this resource will serve as a bridge between the practitioner and the material supplier. Detailed chapters describe the state-of-the-art of each advanced material, including: plastic composites; new tougher ceramics; intermetallics; metal matrix composites; and new alloys. In addition to chapters on specific materials, later chapters cover advances in manufacturing, nondestructive evaluation, and corrosion, among other topics. These chapters also contain information on in situ toughening, plasma spray, solid-state ion deposition, liquid veristors, smart materials and remote microscopy.