



EDUCATIONAL TECHNOLOGY

A listing of materials available at the Justice Institute Library

GENERAL BOOKS

The Application of Emerging Training Technology by Wallace Hannum. San Diego, Calif.: American Society for Training and Development, in association with University Associates. (LB 1028.3 H255 1990)

This booklet begins with the caveat: "The value derived from the use of technology in training is not due to the hardware itself, but rather to the instructional processes that technology can support". Keeping this relationship in mind, the discussion of emerging training technologies (computer delivery, conferencing, optical disc technology) is structured systematically into 5 sections: Description, Training Applications, Considerations, Current Applications, Future Trends.

The Cambridge Handbook of Multimedia Learning edited by Richard E. Mayer. New York: Cambridge University Press. (LB 1028.5 C283 2005)

Champions of Technological Change: B.C. Colleges & Institutes: Meeting Notes, June 7, 1994, Richmond, B.C. hosted by Standing Committee on Educational Technology (SCOET). Victoria, B.C.: Standing Committee on Educational Technology. (LB 1028.3 C427 1994)

Changing College Classrooms: New Teaching and Learning Strategies for an Increasingly Complex World by Diane F. Halpern. San Francisco, Calif.: Jossey-Bass. (LB 2331 C4543 1994)

Part three provides case studies illustrating the use of new technologies (internet, interactive video and hypermedia). Descriptions generally include a discussion of advantages and disadvantages of each.

Compressed Video Learning: Creating Active Learners by Judith M. Roberts. Montreal, Que.: Cheneliere/McGraw-Hill. (LB 1044.75 R624 1998)

Computer Based Training: A Guide to Selection and Implementation by Greg Kearsley. Reading, Ma.: Addison-Wesley. (LB 1028.5 K33 1983)

Some issues outlined in this book remain current and useful: considering the feasibility of computer-based training (Chapter 3), and implementing and managing computer-based training projects (issues to consider).

Dancing with the Devil: Information Technology and the New Competition in Higher Education edited by Richard N. Katz and Associates. San Francisco, Calif.: Jossey-Bass Publishers. (LB 2341 D287 1999)

Designing Video and Multimedia for Open and Flexible Learning by Jack Koumi. New York: Routledge. (LB 1028.75 K68 2006)

Digital Diploma Mills: The Automation of Higher Education by David F. Noble. Toronto, Ont.: Between the Lines. (LB 2395.7 N624 2001)

Digital Literacy by Paul Gilster. New York: Wiley Computer Pub. (TK 5105.875 I57 G5297 1997)

Educational Technology: A Building Block for the Future, B.C. Colleges & Institutions. Victoria, B.C.: Advanced Education Council of British Columbia. Standing Committee on Educational Technology. (LB 1028.3 E387 1993)

This report to the Ministry of Advanced Education, Training and Technology recommends an action plan involving five initiatives, which range from the creation of a communications infrastructure to the provision of training and development.

Effective Teaching with Technology in Higher Education: Foundations for Success by A.W. (Tony) Bates and Gary Poole. San Francisco, Calif.: Jossey-Bass. (LB 2331 B378 2003)

Effective Videoconferencing: Techniques for Better Business Meetings by Lynn Diamond and Stephanie Roberts. Menlo Park, Calif.: Crisp Publications. (HF 5734.7 D53 1996)

Effects of Pacing and Practice on Learning a Psychomotor Skill Using Computer-Interactive Video as the Instructional Method (Thesis) by Charlotte Keegan-Ferretti. San Francisco, Calif.: University of San Francisco. (LB 1028.75 K433 1991)

This doctoral research study compared the effectiveness of in-class instruction vs. video conferencing in the teaching of cardiac arrest skills to B.C. Ambulance Service paramedics. Chapter 3 outlines how the video conferencing portion was set up (this may be of interest to those considering distance education delivery for skill-based courses).

Exploring the Digital Library: A Guide for Online Teaching and Learning by Kay Johnson and Elaine Magusin. San Francisco, CA: Jossey-Bass. (ZA 4080 J64 2005)

The Handbook of HRD Technology by Tom W. Goad. Amherst, Mass.: HRD Press. (HF 5549.5 D37 G623 1993)

This well organized book provides eight chapters on specific technologies, including computer-based training, artificial intelligence and expert systems, video, and teleconferencing. For those who wish to learn more about a particular technology, each chapter is followed with a list of references and, in some cases, a list of relevant journals and publications. Other interesting chapters include a discussion of the "down" side of technology, and an examination of the challenge of assimilating technology into our everyday training practice.

Instructional Technology: Foundations by Robert Mills Gagne. Hillsdale, N.J.: L. Erlbaum Associates. (LB 1028.3 I565 1987)

Issues Affecting the Implementation and Use of Educational Technology: B.C. Colleges and Institutes by Liz Hammond-Kaarremaa. Victoria, B.C.: Centre for Curriculum and Professional Development. (LB 1028.3 H245 1992)

This report summarizes the issues identified by college and institute personnel (faculty and administrative) and students - issues that affect the use of educational technology in their institutions. Data were collected through written surveys and face-to-face interviews. The report outlines key concerns, issues, and suggests "strategic responses" to address these concerns.

Learning Networks: A Field Guide to Teaching and Learning Online by Linda Harasim. Cambridge, Mass.: MIT Press. (LB 1028.43 L43 1995)

Learning Technology Innovation in Canada edited by Carl Bereiter. Ottawa, Ont.: CADE Secretariat. (LB 1028.3 L428 2003)

Managing Technological Change: Strategies for College and University Leaders by A.W. (Tony) Bates. San Francisco, Calif.: Jossey-Bass. (LB 2395.7 B375 2000)

The Multimedia Scriptwriting Workshop by Douglas J. Varchol. San Francisco, Calif.: Sybex. (QA 76.575 V37 1996)

Multimedia-Based Instructional Design: Computer-Based Training, Web-Based Training, Distance Broadcast Training, Performance-Based Solutions by William W. Lee and Diana L. Owens. San Francisco, Calif.: Pfeiffer. (LB 1028.55 L43 2004)

Report of the Learning and Technology Committee. Coventry, England: Further Education Funding Council. (LB 1028.3 F874 1996)

Report of the Post-Secondary Policy Forum on Distributed Learning Environments. Victoria, B.C.: Standing Committee on Educational Technology. (LB 2331.5 P686 1995)

The Strategic Use of Learning Technologies, edited by Elisabeth J. Burge. San Francisco, Calif.: Jossey-Bass. (LB 1028.3 S778 2000)

Teaching in the Information Age: The Role of Educational Technology by Michael J. Albright and David Lee Graf. San Francisco, Calif.: Jossey Bass. (LB 1028.3 T425 1992)

This edited volume examines some of the current trends in educational technology and discusses their implications for teaching and learning in a post-secondary setting. Among the technologies discussed are multimedia systems, state-of-the-art presentation graphics, computer-based systems and virtual reality.

Training and Technology: A Handbook for HRD Professionals by Greg Kearsley. Reading, Mass.: Addison-Wesley Pub. Co. (HF 5549.5 T7 K343 1984)

This author distinguishes between two types of technology relevant to training: "hard" technology (video, computers, telecommunications) and "soft" technology (instructional methods, learning strategies). The final section includes a discussion of the effects of matching "hard" and "soft" technologies.

Training with Video by Steve R. Cartwright. White Plains, NY: Knowledge Industry Publications. (PN 1992.95 C26 1986)

This book provides a guide to the design and production of video training programs. It suggests when and why to choose video for training, as well as advantages and disadvantages. It explains the various steps in program design, scripting and storyboarding, production and post-production, and provides details of each step. One chapter outlines the resources required, including both equipment and staff.

Using Technology-Delivered Learning compiled by Dave Zielinski. Minneapolis, Minn.: Lakewood Books. (LB 1028.3 U857 1996)

Using Technology in Adult Education edited by David G. Gueulette. Washington, D.C.: American Association for Adult and Continuing Education, and Glenview, Ill.: Scott Foresman and Company. (LC 5251 U85 1986)

The articles in this short publication range from a discussion of the relationship between adult education methodologies and educational technologies to descriptions of the use of various interactive and innovative technologies. The references cited in the articles are dated, but many of the ideas remain current.

Using Technology to Promote Student Learning: Opportunities for Today and Tomorrow edited by Catherine McHugh Engstrom and Kevin W. Kruger. San Francisco, Calif.: Jossey-Bass. (LB 1028.3 U857 1997)

Video in Higher Education by Ortrun Zuber-Skerritt. New York: Nichols Pub. Co. (LB 1044.75 V5 1984)

This book examines the uses of video to improve learning, teaching, interaction and communication. While it touches on video production technology, its main focus is on the application of video production and recording in terms of educational theory and practice.

Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce by Roger Schank. New York: McGraw-Hill. (HF 5549.5 T7 S3267 1997)

Why the Information Highway? Lessons from Open & Distance Learning edited by Erin M. Keough & Judith M. Roberts. Toronto, Ont.: Trifolium Books. (LB 1044.84 W485 1995)

VIDEOS

V2549

The Digital Schoolroom (video, 22 minutes, 1999)

Examines the role of a university using the broadcast method of teaching (faculty contact, set hours of instruction, less cost effective); creating online instruction to further life-long learning; introducing flexibility (learn when you need it leading to increased registration and profits); and tailoring courses to suit corporate interests. Discusses problems with online academic courses: quality of courses unknown; lack of credibility and authenticity as anyone, anywhere can create courses on the web; course content dictated by and created for special interest groups; and, lack of contact with peers and instructors. Topics addressed include: collaborative learning, just-in-time learning, interactive arts courses, and the online university. (B.C. Learning Connection) (LB 1028.5 D349 1999)

JOURNALS

Canadian Journal of Educational Communication
(Now called: **Canadian Journal of Learning and Technology**)

Educational Technology

Journal of Instructional Development

Technical Communication

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