PUBLICATIONS


Blum, B. I. (APL), and Duncan, K. (Health Information Systems), A History of Medical Informatics, Blum, B. I., and Duncan, K., eds., ACM Press and Addison-Wesley, Reading, Mass. (1990).


Pace, D. K., “Technology Gaming,” in Proc. 2nd Int. Conf. on Engineering Management,


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Shuster, M. D., "QUEST, a longa história de um algoritmo rápido," 1st Brazilian Symp. on Aerospace Technology, São José dos Campos (SP), Brazil (Aug 1990).

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The following papers were presented at the 10th Annual Meeting, Bioelectromagnetics Society, Tucson, Ariz. (18–22 Jun 1989):


The following papers were presented at the AGU Fall Meeting, San Francisco, Calif. (2–5 Dec 1990):


Williams, D. J., "Theory and Data Products from the First GEM Campaign."

COLOQUIA
7 Dec 1990—"The Quantum Zeno Effect," W. M. Itano, National Institute of Standards and Technology.
14 Dec—"Developments in Laser Trapping and Cooling," C. E. Wieman, JILA and University of Colorado.
8 Feb—"Optical Computation Using SEEDs (Self-Electro-optic Effect Devices)," M. Prise, AT&T Bell Laboratories.
22 Feb—"Optics with Two-Dimensional Electrons," H. L. Stormer, AT&T Bell Laboratories.
8 Mar—"Quantum Semiconductor Nanostructures: Physics and Applications," M. A. Reed, Yale University.
22 Mar—"Ecological Economics," R. Constanza, University of Maryland Chesapeake Biological Laboratory.
29 Mar—"CGI: Chapter Two," R. E. Smalley, Rice University.

U.S. PATENTS (1990)
J. Bohandy, B. F. Kim, T. E. Phillips, F. J. Adrian, and K. Moorjani, Method for Detection of Weak Links in the Current Path of Electrically Continuous Superconductors, No. 4,904,929, 27 Feb:
Detection of weak links in electrically continuous superconductors by observing the effect of magnetic field modulation on the dc resistance of superconductors. The phase-detected response to the magnetic modulation shows a peak at \( T_c \). The presence of a second peak at temperatures below \( T_c \) indicates the presence of weak links in the superconductor.

R. S. Potember, K. R. Speck, and H. S. Hu, Vanadium Dioxide Formed by the Sol–Gel Process, No. 4,957,725, 18 Sep:
Vanadium dioxide thin films prepared from tetravalent vanadium organic compounds by using a sol–gel process. Vanadium dioxide films deposited from an alcoholic solution are annealed between 200 and 700°C under nitrogen to achieve complete dehydration and crystallization.

W. G. James, ECM Simulator for Missile Fire Control System Vulnerability Studies, No. 4,969,819, 13 Nov:
An electronic countermeasure (ECM) particularly adaptable for use in missile fire control system vulnerability studies. A computer is used to control the simulation of true target radiant skin return signals and ECM signals. The ECM signals are representative of those produced by attacking and standoff aircraft carrying deception and obscurant jamming.

B. F. Kim, J. Bohandy, and F. J. Adrian, Method and Apparatus for the Thin Film Deposition of Materials with a High Power Pulsed Laser, No. 4,970,196, 13 Nov:
An apparatus and method for laser direct writing of materials onto a substrate by using a high-power pulsed laser. The laser direct writing is accomplished by impinging a thin film of material with a pulsed laser, causing the material to be selectively blown off an optically transparent source support substrate and deposited onto the surface of the receiving substrate.

Q. E. Dolecek, Address Sequence Generation by Means of Reverse Carry Addition, No. 4,974,188, 27 Nov:
An apparatus for generating a bit-reversed sequence. The apparatus includes a reverse addition means for adding binary words in most significant to least significant bit order, with the overflow or carry bit propagated to the left. The invention is used to generate a bit-reversed address and/or an address sequence that is mapped into a "closed" space.

R. E. Bateman, Test Set for a Navigational Satellite Receiver, No. 4,977,579, 11 Dec:
A test set to detect the reduced capabilities of an associated navigational satellite receiver and to isolate malfunctions therein. A digital card test section generates digital signals to test and isolate faults in four digital system cards of the satellite receiver. A satellite simulator section generates a facsimile of a navigational reference signal to test the receiver–processor section of the satellite receiver.