McGill University Archives McGill University, Montreal Canada



MG4274
Peter P. Silvester Fonds
Accession 2010-0146

McGill University Archives Finding Aid

Peter P. Silvester fonds

Accession 2010-0146

Dates: ca. 1958 to 2007; predominant 1965-1996

Extent: 2 metres of textual records

39 photographs

1 35mm negative strip ca. 1100 35mm slides

3 microfiche

ca. 120 electronic disks

Biographical Sketch

Peter (Peet) Silvester, born January 1935 in Tallin, Estonia, was the only son of Helga Peet Silvester and Robert Silvester. When he was 12 years old, Peter Silvester immigrated with his mother to Canada. They settled in Edmonton, Alberta, where he attended the Victoria Composite High School from which he graduated in 1952. Later, Peter Silvester moved to Pittsburgh, Pennsylvania where he earned his bachelor's degree in Engineering at the Carnegie Institute of Technology. Following his graduation in 1956, Peter Silvester went on to obtain his Masters in Applied Science from the University of Toronto in 1958. At this time, he married his wife, Elisabeth. In 1964, Peter Silvester obtained his PhD from McGill University in Montreal, Canada. Dr. Silvester remained at McGill University until 1995, when he retired and moved to Victoria, British Columbia where he passed away in October of 1996.

Dr. Silvester's professional career began in 1957 when he was hired as a Senior Demonstrator at McGill University. Over the next few years, Dr. Silvester progressively moved to more senior positions, which included receiving tenure in 1971 and full professorship in 1972. He also held administrative posts as the chairman of the Department of Electrical Engineering and established the department's Computational Analysis and Design Laboratory. Aside from his term at McGill University, Dr. Silvester held several appointments as a visiting lecturer, researcher and fellow at universities in London (UK), Florence and Grenoble. Dr. Silvester also played a key role in developing and launching Canada's first degree program in computer engineering. Other career highlights include his role as the founding director of Infolytical Corporation, a software firm engaged in the development and marketing of finite element software for the use in electrical engineering industry, and his consulting work with various public and private organizations, such as General Electric, Xerox, National Research Council and Rutherford Laboratory, to name a few. Following his retirement from McGill University in 1995, Peter and Elisabeth Silvester moved to Victoria, British Columbia, where he held an

honorary professorship at the University of British Columbia and was an Adjunct Professor at the University of Victoria. He held both these positions up until his death.

Peter Silvester is best known for his research on the Finite-Element Method (FEM) and his contributions toward the development of numerical-modeling methods applied to electromagnetic problems. Additionally, his early work on eddy currents also earned him a gold medal at the first Pan-American Conference on Electrical and Mechanical Engineering. This, along with other research, led Dr. Silvester to work with a small group of researchers on the area of using high-speed computers as a tool for use in engineering design, and ultimately to the development of software engineering. Dr. Silvester wrote and co-authored several books as well as articles, all based upon his research. His fundamental book, "Finite Elements for Electrical Engineers" is commonly regarded as the standard reference book in its field, and has been translated into four different languages. He was also the editor of six other books and the journal *Electrosoft*, a publication for work in software for electrical engineering applications. In 1994, Dr. Silvester was elected a Fellow of the Royal Society of Canada for his contributions and service in the field of computational and electrical engineering. He was also awarded the Fellow of the Institute of Electrical and Electronic Engineers (New York) and the Fellow of the Institution of Electrical Engineers (London). From 1965 until his death, Dr. Peter Silvester had a long and distinguished career as a teacher, mentor and researcher.

Custodial History

The records were kept by the creator until his death. From 1996 to 2009, the spouse of the donor maintained the records until the records were donated to the McGill University Archives.

Scope and Content

The fonds consists of documents, photographs and electronic media relevant to the personal and professional history of Dr. Peter (Peet) Silvester. The scope predominately covers the period from 1965 to 1996, and includes Dr. Silvester's published articles, copies of his books, including some translated editions and 35mm slides and photographs used as illustrations and as visual aids in presentations. His personal papers cover the period from his immigration to Canada and to his death, and include some photographs, correspondence between Dr. Silvester and his wife, Elisabeth, and daily journals.

This fonds is divided into nine series. The first series contains his personal papers, with the remaining series covering his professional career. The second series is largely correspondence, and the remaining seven series relate to his research and publication of articles and books. The series covering correspondence and research are organized by subject, and the articles are organized chronologically.

Source of Supplied Title

Title based upon the content of the fonds.

Arrangement Note

The fonds had a natural arrangement which was preserved. Some series had no formal title, and a title was imposed by the archivist based upon the content of the series.

Language Note

The material is predominately in English.

Restriction Note

Some files are restricted under the *An Act respecting Access to documents held by public bodies and the Protection of personal information* (R.S.Q., chapter A-2.1).

Accruals Note

Further accruals are expected.

| Year In | crement | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross Reference | Comments |
|---------|---------|------------|--------|------------|------------------------------|---|-------------------|---------------------|--|
| 2010 01 | 146 | 01 | 01 | 1 | [Personal Diary] | personal log book | 1989-1991 | | |
| 2010 01 | 146 | 01 | 01 | 2 | | personal log book | 1992-1994 | | |
| 2010 01 | 146 | 01 | 01 | | | personal log book | 1994-1996 | | |
| 2010 01 | 146 | 01 | 01 | | | personal log book | 1995-1996 | | |
| 2010 01 | 146 | 01 | 01 | 5 | [Personal Diary] | personal log book | 1974-1980 | 2010-0146.04.01 | 6 black and white 6"X10" photographs of winter scenes, tucked inside back of personal log book 11 black and white portraits of |
| | | | | | | | | | PPSilvester, various sizes; 4 colour portraits of PPSilvester, 4"X6"; 6 group photographs, various sizes; 4 black and white wallet photographs of unknown woman; 1 35mm negative strip (negative strip corresponds to printed image in |
| 2010 01 | 146 | 01 | 01 | | Photos | original black &white colour copies; colour; 35mm negatives | c. 1958-1996 | 2010-0146.04.02 & 3 | 2010-0146.04.3) |
| 2010 01 | 146 | 01 | 01 | 7 | Personal Promotions | private and work related correspondence | 1952-1997 | | |
| 2010 01 | 146 | 01 | 01 | | Sabbatic Leaves PPS | correspondence regarding sabbitical leaves | 1988-1995 | | |
| 2010 01 | 146 | 01 | 01 | 9 | Retirement PPS | retirement correspondence and financial forms | 1995-1996 | | |
| 2010 01 | | 01 | 01 | | | copies medical records and correspondence | 1995 | | |
| 2010 01 | 146 | 01 | 01 | | CVs | copies of Silvester's CV | 1971-1995 | | |
| 2010 01 | 146 | 01 | 01 | 12 | Bibliogrpahy Dec 2006 | list of papers and books 1935-1996; copy of article which include | s selected biblic | ography | |
| 2010 01 | | 01 | 01 | 13 | Bio-bibliography 2007 | article and correspondence | 1996-2007 | | |
| 2010 01 | 146 | 01 | 01 | | PPS Obits | copies of obituaries | 1996-1998 | | |
| 2010 01 | 146 | 01 | 01 | 15 | PPS funeral | in memoriam and signed paper of guests | 1996 | | |
| 0040 5 | 140 | 0.4 | | | Memorial Service Montreal | | 1000 | | |
| 2010 01 | 146 | 01 | 01 | | Nov 96 | scrapbook | 1996 | | |
| 2010 01 | 146 | 01 | 01 | 17.1 | Condolences (selected) | letters and correspondence | 1996-1997 | | |
| 2010 01 | 146 | 01 | 01 | 17.2 | Condolences (selected) | letters and correspondence | 1996-1997 | | |

| 040.04 | 46 Cilvootor | Fondo Filo Lio | <u> حايد مصنه</u> | 01-01 | F'1. T'4. | Doy 1 | Dates Cross Ref | O B-1 | Commonts |
|--------|--------------|----------------|-------------------|------------|-----------------|---|-----------------|-----------------|---|
| Year | increment | Media Code | Series | Sub-Series | | Description of File | Dates | Cross Reference | Comments |
| | | | | | PPS memorials | | | | |
| 2010 | | - | 01 | 18 | etc. | correspondence regarding Silvesters' death | 1996-1998 | | |
| 2010 | 0146 | 01 | 01 | 19 | McGill Emeritus | correspondence, convocation booklet and photograph | 1996-1997 | | |
| | | | | | Royal Society | | | | |
| 2010 | 0146 | 01 | 01 | 20 | Obituary | correspondence, photocopy of article | 1997-1998 | | |
| 2010 | 0146 | 01 | 01 | 21 | 1992 Memorial | Alta Frequenza Rivista di Elettronica journal | 1992 | | |
| | | | | | Memorial | | | | |
| | | | | | Session | | | | |
| 2010 | 0146 | 01 | 01 | 22 | Montreal 1998 | correspondence | 1997 | | |
| | | | | | Memorial | | | | |
| 2010 | 0146 | 01 | 01 | 23 | Poitiers 1998 | correspondence and journal | 1998 | | |
| | | | | | Memorial | , | | | |
| | | | | | Session | | | | |
| | | | | | Stellenbosch | | | | |
| 2010 | 0146 | 01 | 01 | 24 | 2006 | copy of conference paper | 2006 | | |
| | | | | | | | | | 3 colour photographs, possibly from the |
| 2010 | 0146 | 01 | 01 | 25 | | guest book [possibly from funeral service], with photos | c.1996 | 2010-0146.04.4 | funeral 4"X6" |
| | | | | | personal | J 17 1 | | | |
| 2010 | 0146 | 01 | 01 | 26 | • | correspondence between Peter and Elisabeth | 1973-1977 | | |
| | | | | | MSS Montreal | | | | |
| 2010 | 0146 | 01 | 01 | 27 | English | printouts of english definitions, newspaper article | c. 1980 | | |
| | <u> </u> | | | | MSS A Way with | | 0000 | | |
| 2010 | 0146 | 01 | 01 | 28 | Words | incomplete copy of "the Literate Professional's Guide to Word Pro | 1984 | | |
| 2010 | | | 01 | 29 | | Master of Applied Science Thesis "An Equivalent Circuit for Magn | | | |
| 2010 | | | 01 | 30 | | PhD dissertation "A Nonlinear Slip-ring Primitive for Generalised I | | | |
| | | | | | | References for and by PP Silvester; personal correspondence | - | | |
| | | | | | | from friends and colleagues; resumes; sketches and copies of | | | |
| 2010 | 0146 | 01 | 01 | 31 | Corresp. A-Z | | 1976-1996 | | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference | Comments |
|------|-----------|------------|--------|------------|----------------------------|--|-----------|-----------------|--------------------------------------|
| 2010 | | | 02 | 1 | Belmans | correspondence from Belmans | 1989-1991 | | |
| 2010 | | | 02 | 2 | Crawley | personal correspondence | 1988-1989 | | |
| 2010 | | | 02 | 3 | Gupta | letter of comments; copy of Silvester article | 1990 | | |
| 2010 | 0146 | 01 | 02 | 4 | Miyoshi | correspondence | 1990-1993 | | |
| | | | | | | correspondence; correspondence for conference travel; | | | |
| 2010 | | | 02 | 5 | Ni | offprints; resume; visiting scholar correspondence | 1991-1996 | | |
| 2010 | 0146 | | 02 | 6 | Ogawa | personal correspondence | 1990-1992 | | |
| 2010 | 0146 | 01 | 02 | 7 | Renshan | correspondence; copy of article; conference registration | 1988-1991 | | |
| 2010 | 0146 | | 02 | 8 | Santini | copy of article; disks | 1994-1995 | | |
| 2010 | 0146 | 01 | 02 | 9 | Yoshimoto | copy of articles; correspondence; photos | 1983-1994 | 2010-0146.04.5 | 2 colour photographs, 4 1/2"X3 1/4" |
| | | | | | | Ceia series | | | |
| 2010 | 0146 | 01 | 03 | 1 | Sphermap | bugs with the program | 1994-1995 | | |
| | | | | | | correspondence on judgement for application of patent; copy of | | | |
| 2010 | 0146 | 01 | 03 | 2 | [untitled] | a patent | 1994-1996 | | |
| 2010 | 0146 | 01 | 03 | 3 | Ceia | correspondence on legal case on patent | 1994 | | |
| 2010 | 0146 | 01 | 03 | 4 | Ceia | analysis of Out and metal detector | 1994 | | |
| | | | | | | CUP [Cambridge University Press] series | | | |
| | | | | | | loose correspondence regarding royalties and publication of the | | | |
| 2010 | 0146 | 01 | 04 | 1 | [CUP] | book, Finite Elements for Electrical Engineers | 1980-2003 | | |
| | | | | | | correspondence for disk orders from the Finite Elements for | | | |
| | | | | | | Electrical Engineers; little correspondence on CUP publication | | | |
| 2010 | 0146 | 01 | 04 | 2 | S & F disks | and translation | 1990-1994 | | |
| | | | | | | No series listed here | | | |
| | | | | | Computational Mechanics | SPICE 5.25 disks; copy of article Toward a Formal Standard of the SPICE Circuit Description Language; publishing agreement to be editor of conference proceedings; photographs; 3.5 floppy | | | |
| 2010 | 0146 | 01 | 05 | 1 | Publications | for Data Structures in Engineering Software | 1990-1993 | 2010-0146.04.6 | 6 black and white photographs, 5"X7" |
| 2010 | 0146 | | 05 | 2 | IREQ | Correspondence for employment contract | 1974 | | |
| 2010 | 0146 | 01 | 05 | 3 | Ontario MTC | Correspondence for employment contract and work proposal | 1973-1975 | | |
| | | | | | | 3.5 floppies; correspondence for consulting work; reference | | | |
| 2010 | 0146 | 01 | 05 | 4 | PRECO | material | 1994 | | |
| | - | | - | | Oxford Univ. | | - | | |
| 2010 | 0146 | 01 | 05 | 5 | Press | correspondence for book proposal; royalty payment invoices | 1988-1994 | | |
| | - | | - | | | RSC series | | | |
| | | | | | | loose correspondence regarding the Royal Society of Canada; | | | |
| 2010 | 0146 | 01 | 06 | 1 | [RSC] | induction into the Royal Society of Canada | 1992-1995 | | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference | Comments |
|------|-----------|------------|--------|------------|-----------------|--|----------------|-----------------|--|
| | | | | | | Springer series | | | |
| 2010 | | | 07 | 1 | Springer | correspondence, tax forms, publishing agreements | 1980-1988 | | |
| 2010 | 0146 | 01 | 07 | 2 | [Springer] | loose correspondence; royalty invoices | 1985-1995 | | |
| | | | | | | No series listed here | | | |
| | | | | | | correspondence regarding visiting lecture/fellowship at Trinity | | | |
| 2010 | | 01 | 08 | 1 | Trinity College | College, Cambridge; advent program | 1987-1989 | | |
| 2010 | 0146 | 01 | 08 | 2 | [envelope] | copies of overhead projector transparencies of a lecture | 1994 | | original photocopied and destroyed |
| | | | | | | copies of overhdead projector transparencies of a lecture (on | | | |
| 2010 | 0146 | 01 | 08 | 3 | [box] | transparency film Type D for Canon copiers) | 1992-1994 | | original photocopied and destroyed |
| | | | | | Finite Element | | | | |
| 2010 | | 01 | 08 | 4 | Course | timetable; colour 35mm slides | 1987 | 2010-0146.04.7 | 50 35mm colour slides |
| 2010 | 0146 | 09 | 08 | 1 | San Miniato | 3.5 floppy San Miniato 1992 Overheads | 1992 | | |
| | | | | | Lecture | | | | |
| | | | | | Kanazawa & | | | | |
| 2010 | 0146 | 01 | 08 | 5 | Okayama | 5.25 disk; 3.5 floppy; lecture slides | 1992 | | |
| | | | | | | [Articles] | | | |
| | | 01 | 09 | 1 | 1965 | Energy Conversion by Nonlinear Slip-Ring Electric Machines | | | |
| 2010 | | 01 | | 2 | 1965 | Eddy-current modes in linear solid-iron bars | | | |
| 2010 | | 01 | | 3 | 1965 | Analogue Method for determination of Current Distribution in A-C | Bus-Bars | | |
| | | 01 | 09 | 4 | 1966 | A Practical Skin-effect Computing Network | | 2010-0146.04.8 | 2 black and white photographs, 4"X6" |
| | | 01 | | 5 | 1966 | Modal Network Theory of Skin Effect in Flat Conductors | | 2010-0146.04.9 | 3 black and white portraits, wallet size |
| 2010 | | 01 | | 6 | 1966 & 1967 | Network analog solution of skin and proximity effects problems (| | | |
| 2010 | | 01 | 00 | 7 | 1966 & 1967 | AC Resistance and Reactance of Isolated Rectangular Conductor | | 67) | |
| | | 01 | | 8 | 1967 | Dynamic Resistance and Inductance of Slot-embedded conductor | | | |
| | | 01 | | 9 | 1967 | Discussion on "Transient Resistance of Conductors" by Tuohy, L | ee and Fullert | on | |
| | | 01 | 09 | 10 | 1967-68 | TEM Wave Properties of Microstrip Transmission Lines | | | |
| 2010 | | 01 | 09 | 11 | 1968 | Solution of 2-Dimensional Field Problems | | | |
| 2010 | | 01 | 09 | 12 | 1968 | Dynamic Resistance and Inductance of Slot-embedded conductor | ors | | |
| 2010 | | 01 | 09 | 13 | [1968] | Finite Element Solution of Homogenous Waveguide Problems | | | |
| 2010 | | 01 | 09 | 14.1 | [1968] | High Order Polynomial Triangular Finite Elements for Potential P | 1968 | | |
| 2010 | 0146 | 01 | 09 | 14.2 | [1968] | High Order Triangular Elements 1968 | | | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference | Comments |
|------|-----------|------------|--------|------------|-------------|---|-------------|-----------------|--------------|
| | | | | | | Impedance of Nonmagnetic Overhead Power Transmission | | | |
| 2010 | 0146 | 01 | 09 | 15 | [1968-1969] | Conductors | [1968-1969] | | |
| | | | | | | The Accurate Calculation of Skin Effect in Conductors of | | | |
| 2010 | | | 09 | 16 | [1968-1969] | Complicated Shape | [1968-1969] | | |
| 2010 | 0146 | 01 | 09 | 17 | [1968-1969] | Contour Plotting Routine for Line Printers | [1968-1969] | 2010-0146.10.1 | 1 microfiche |
| 2010 | 0146 | 01 | 09 | 18 | [1968-1969] | Analysis of Coaxial Line Discontinuities by Boundary Relaxation | [1968-1969] | | |
| | | | | | | The Numerical Solution of Dielectric Loaded Waveguides: II- | | | |
| | | | 09 | 19 | [1968-1969] | Modal Approximation Technique | [1968-1969] | | |
| 2010 | 0146 | 01 | 09 | 20 | [1968-1969] | High Order Finite Element Waveguide Analysis | [1968-1969] | 2010-0146.10.2 | 1 microfiche |
| | | | | | | A General High-order Finite-Element Waveguide Analysis | | | |
| | | | | 21 | [1968-1969] | Program | [1968-1969] | | |
| | | 01 | 09 | 22 | [1968-1969] | Solution of Field Problems by Boundary Relaxation | [1968-1969] | 2010-0146.03.1 | 1 diploma |
| | | 01 | 09 | 23 | [1968-1969] | Principles and Analysis of ACSR with Two Mixed Layers | [1968-1969] | | |
| | | | 09 | 24 | [1968-1969] | Capacitance Determination for Infinite Interdigital Structures | [1968-1969] | 2010-0146.10.3 | 1 microfiche |
| 2010 | 0146 | 01 | 09 | 25 | [1968-1969] | Skin Effect in Multiple and Polyphase Conductors | [1968-1969] | | |
| | | | | | | Discussion on "Skin and Proximityeffect in Polyphase Systems | | | |
| | | | | | | on Rectangular Conductors Calculated on an Analog RC | | | |
| 2010 | 0146 | 01 | 09 | 26 | [1968-1969] | Network" | [1968-1969] | | |
| | | | | | | Finite Element Solutions of the Two Dimensional Helmholtz | | | |
| 2010 | 0146 | 01 | 09 | 27 | [1968-1969] | Equation | [1968-1969] | | |
| 2010 | | 01 | 09 | 28 | [1970] | Finite Element Solution of Saturble Magnetic Problems | [1970] | | |
| 2010 | 0146 | 01 | 09 | 29 | [1970] | Modal Theory of Skin Effect in Single and Multiple Turn Coils | [1970] | | |
| | | | | | | Newton-cotes Quadrature Formulae for N-Dimensional | | | |
| 2010 | 0146 | 01 | 09 | 30 | [1970] | Simplexes | [1970] | | |
| | | | | | | Boundary-Relaxation Analysis of Rotationally Symmetric | | | |
| 2010 | 0146 | 01 | 09 | 31 | [1970] | Electric Field Problems | [1970] | | |
| | | | | | | Finite Element Solution of Dielectric Loaded Waveguides and | | | |
| 2010 | 0146 | 01 | 09 | 32 | [1970] | Numerical Solution of Dielectric Loaded Waveguides: I-Finite | [1970] | | |
| 2010 | 0146 | 01 | 09 | 33 | [1971] | Digital Computer Aids to Transmission Line Design | [1971] | 2010-0146.03.2 | 1 diploma |
| | | | | | | Discussion of "Load Analysis of Nonlinear Homopolar Inductor | | | |
| 2010 | 0146 | 01 | 09 | 34 | [1971] | Alternator" | [1971] | | |
| 2010 | 0146 | 01 | 09 | 35 | [1971] | Finite Element Programs for the Scalar Helmholtz Equation | [1971] | | |
| 2042 | 04.40 | 04 | 00 | 20 | [4074] | Analysis of Typh saltemates Magnetic Fields by Figits Flores to | [4074] | | |
| | | | 09 | 36 | [1971] | Analysis of Turboalternator Magnetic Fields by Finite Elements | [1971] | | |
| 2010 | 0146 | 01 | 09 | 37 | [1971] | Finite Element Methods for Microwave Field Problems | [1971] | | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference Comments |
|------|-----------|------------|--------|------------|------------|---|--------|--------------------------|
| | | | | | | A Practical Differentiation Equation Solving Program for | | |
| 2010 | 0146 | 01 | 09 | 38 | [1971] | Engineering Applications | [1971] | |
| | | | | | - | Nonlinear Magnetic Field Analysis of DC Machines Part III. | | |
| 2010 | 0146 | 01 | 09 | 39 | [1971] | Equipotential Plots Drawn by Computer | [1971] | |
| | | 01 | 09 | 40 | [1971] | Biharmonic Operators for the Waveguide Problem | [1971] | |
| | | | | | - | Capacitance and Field Distributions for Interdigital Surface- | | |
| 2010 | 0146 | 01 | 09 | 41 | [1971] | Wave Transducers | [1971] | |
| 2010 | 0146 | 01 | 09 | 42 | [1971] | Numerical Formation of Finite Difference Operators | [1971] | |
| | | 01 | 09 | 43 | [1971] | Symmetric Quadrature Formulae for Simplexes | [1971] | |
| 2010 | 0146 | 01 | 09 | 44 | [1971] | Variational discretization of the Laplace Operator | [1971] | |
| | | | | | | | | |
| 2010 | 0146 | 01 | 09 | 45 | [1971] | Finite Element Analysis of Magnetically Saturated DC Machines | [1971] | |
| | | | | | | Scalar Finite Element Program Packages for Two-dimensional | | |
| | | | 09 | 46 | [1971] | Field Problems | [1971] | |
| 2010 | 0146 | 01 | 09 | 47 | [1971] | Finite Elements of Very High Orders in Electromagnetics | [1971] | |
| | | | | | | Projective Solution of Integral Equations Arising in Electric and | | |
| | | 01 | 09 | 48 | [1971] | Magnetic Field Problems | [1971] | |
| | | 01 | 09 | 49 | [1971] | Dielectric Load Waveguide Analysis Program | [1971] | |
| 2010 | 0146 | 01 | 09 | 50 | [1971] | A Finite Element Field Plotting Program | [1971] | |
| | | | | | | Finite-element Solution of 2-dimensional Exterior Field | | |
| 2010 | 0146 | 01 | 09 | 51 | [1971] | Problems | [1971] | |
| | | | | | | Finite Element and Finite Difference Solutions to Waveguide | | |
| 2010 | 0146 | 01 | 09 | 52 | [1971] | Problems | [1971] | |
| 0040 | 04.40 | 04 | 00 | 50 | [4074] | Discussion on IIE day, Company I access in the Conduction Clabell | [4074] | |
| 2010 | 0146 | 01 | 09 | 53 | [1971] | Discussion on "Eddy Current Losses in the Conducting Slabs" | [1971] | |
| 0040 | 04.40 | 0.4 | 00 | - A | [4074] | A Projective Method for the General Solution of Differential | [4074] | |
| | | 01 | 09 | 54 | [1971] | Equations | [1971] | |
| 2010 | 0146 | 01 | 09 | 55 | [1971] | High-order Polynomial Tetrahedral Finite Elements | [1971] | |
| 0040 | 0.4.40 | 0.4 | | | [4070] | Capacitance of Parallel Rectangular Plates Separated by a | [4070] | |
| | | | 09 | 56 | [1972] | Dielectric Sheet | [1972] | |
| 2010 | 0146 | 01 | 09 | 57 | [1972] | Magnetotelluric Modelling by the Finite Element Method | [1972] | |
| | | | | | | Axidymmetric Traingular Finite Elements for the Scalar | | |
| 2010 | 0146 | 01 | 09 | 58 | [1972] | Helmholtz Equation | [1972] | |
| | | | | | | analysis of Antenna Structures Assembled from Arbitrarily | | |
| 2010 | 0146 | 01 | 09 | 59 | [1972] | Located Straight Wires | [1972] | |
| | | | | | | Mcrostrip Discontinuity Capaciatances for Right Angle Bends, T | | |
| 2010 | 0146 | 01 | 09 | 60 | [1972] | Junctions and Crossings | [1972] | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference Comments |
|------|-----------|------------|--------|------------|------------|---|--------|--------------------------|
| | | | | | | Tetrahedral Polynomial Finite Elements for the Helmholtz | | |
| 2010 | 0146 | 01 | 09 | 61 | [1972] | Equation | [1972] | |
| | | | | | | Generalised Matrix Inverse Techniques for Local | | |
| 2010 | 0146 | 01 | 09 | 62 | [1972] | Approximations of Operations | [1972] | |
| 2010 | 0146 | 01 | 09 | 63 | [1972] | Numerical Methods for EHV and Microwave Field Problems | [1972] | |
| | | | | | | Calculation of Inductance of Finite-length Strips and its | | |
| 2010 | 0146 | 01 | 09 | 64 | [1972] | Variation with Frequency | [1972] | |
| 2010 | 0146 | 01 | 09 | 65 | [1972] | Electrostatics of the Microstrip - Revisited | [1972] | |
| 2010 | 0146 | 01 | 09 | 66 | [1972] | Equivalent Capacitances of Microstrip Open-circuits | [1972] | |
| 2010 | 0146 | 01 | 09 | 67 | [1972] | Finite Element Analysis of Planar Microwave Networks | [1972] | |
| 2010 | 0146 | 01 | 09 | 68 | [1972] | Bubnov-Galerkin Solutions to Wire-antenna Problems | [1972] | |
| | | | | | | Generalised Matrix Inverse Techniques for Local | | |
| 2010 | 0146 | 01 | 09 | 69 | [1972] | Approximations of Operator Equations | [1972] | |
| 2010 | 0146 | 01 | 09 | 70 | [1972] | Equivalent Capacitances for Microstrip Gaps and Steps | [1972] | |
| | | | | | | A Computer Program for Magnetotelluric Modelling by the Finite | | |
| 2010 | 0146 | 01 | 09 | 71 | [1973] | Element Method | [1973] | |
| | | | | | • | A Finite Element Program Package for Axisymmetric Scalar | | |
| 2010 | 0146 | 01 | 09 | 72 | [1973] | Field Problems | [1973] | |
| | | | | | • | A Finite Element Program Package for Axisymmetric Scalar | | |
| 2010 | 0146 | 01 | 09 | 73 | [1973] | Field Problems | [1973] | |
| 2010 | 0146 | 01 | 09 | 74 | [1973] | Numerical Modelling of Passive Microwave Devices | [1973] | |
| | | | | | | Analysis of Transformer Leakage Phenomena by High-order | | |
| 2010 | 0146 | 01 | 09 | 75 | [1973] | Finite Elements | [1973] | |
| | | | | | | Efficient Techniques for Finite Element Analysis of Electric | | |
| 2010 | 0146 | 01 | 09 | 76 | [1973] | Machines | [1973] | |
| 2010 | 0146 | 01 | 09 | 77 | [1973] | Microstrip Discontinuity Capacitances for Right-angle Bends | [1973] | |
| | | | | | | Triangular Finite Elements for the Generalized Bessel Equation | | |
| 2010 | 0146 | 01 | 09 | 78 | [1973] | or Order M | [1973] | |
| | | 01 | 09 | 79 | [1973] | Projective Analysis of Log-periodic Dipole Antennas | [1973] | |
| | | | | | | A Practical Differential Equation Solving Problem for | | |
| 2010 | 0146 | 01 | 09 | 80 | [1973] | Engineering Applications | [1973] | |
| | | | | | • | Calculation of inductance of finite length strips and its variation | | |
| 2010 | 0146 | 01 | 09 | 81 | [1973] | with frequency | [1973] | |
| | | | | | | Electrostatic Microstrip Analysis Programs - MICRO and | | |
| 2010 | 0146 | 01 | 09 | 82 | [1973] | INFSTR | [1973] | |
| | | | | | - | A numerical method for the general solution of ordinary | | |
| 2010 | 0146 | 01 | 09 | 83 | [1974] | differential | [1974] | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference | Comments |
|------|-----------|------------|--------|------------|-------------|---|-------------|-----------------|--|
| | | | | | | Curvilinear finite elements for two-dimensional saturable | | | |
| 2010 | 0146 | 01 | 09 | 84 | [1974] | magnetic fields | [1974] | | |
| | | | | | | A graphical representation for interpreting scalar wave multiple- | | | |
| 2010 | 0146 | 01 | 09 | 85 | [1974] | scattering phenomena | [1974] | | |
| | | | | | | The open-circuit magnetic field of a saturated synchronous | | | |
| 2010 | 0146 | 01 | 09 | 86 | [1974] | machine, an experimental and computational study | [1974] | | |
| | | | | | | Finite element in computer aided design of electromagnetic | | | |
| 2010 | 0146 | 01 | 09 | 87 | [1974] | devices | [1974] | | |
| | | | | | | Finite element solution of saturated travelling magnetic field | | | |
| 2010 | 0146 | 01 | 09 | 88 | [1974] | problems | [1974] | | |
| 2010 | 0146 | 01 | 09 | 89 | [1974] | Analysis of the log-periodic V-dipole antenna | [1974] | | |
| 2010 | 0146 | 01 | 09 | 90 | [1974] | Fourier trasform finite elements for magnetic levitation | [1974] | | |
| | | | | | | | | | 2 black and white photographs, various |
| 2010 | 0146 | 01 | 09 | 91 | [1974] | Finite-element modelling of the inhomogeneous human thorax | [1974] | 2010-1046.04.10 | sizes |
| 2010 | 0146 | 01 | 09 | 92 | [1974] | The integral equations of superconductive levitation systems | [1974] | | |
| 2010 | 0146 | 01 | 09 | 93 | [1975] | Solution to the interconnected wire-scatterer problem | [1975] | | |
| | | | | | | Torque calculation in finite element modelling of electric | | | |
| 2010 | 0146 | 01 | 09 | 94 | [1975] | machines | [1975] | | |
| | | | | | | Finite element analysis of steady-state skin effects in a slot- | | | |
| 2010 | 0146 | 01 | 09 | 95 | [1975] | embedded conductor | [1975] | | |
| | | | | | | [Review of] An introduction to electromagnetic fields by R.L. | | | |
| 2010 | | 01 | 09 | 96 | [1976-1977] | Ferrari | [1976-1977] | | |
| 2010 | 0146 | 01 | 09 | 97 | [1976-1977] | In defence of canned programmes | [1976-1977] | | |
| | | | | | | Radiation and scattering by wire anatenna structures near a | | | |
| 2010 | 0146 | 01 | 09 | 98 | [1976-1977] | rectangular plate reflector | [1976-1977] | | |
| | | | | | | | | | |
| 2010 | 0146 | 01 | 09 | 99 | [1976-1977] | A finite element program package for magnetotelluric modelling | [1976-1977] | | |
| | | | | | | Interconnected rectangular reflectors excited by wire antenna | | | |
| | | 01 | 09 | 100 | [1976-1977] | structures | [1976-1977] | | |
| 2010 | 0146 | 01 | 09 | 101 | [1976-1977] | Network parameter determination by numerical field analysis | [1976-1977] | | |
| | | | | | | Exterior finite elements for 2-dimensional field problems with | | | |
| | | | 09 | 102 | [1976-1977] | open boundaries | [1976-1977] | | |
| | | 01 | 09 | 103 | [1976-1977] | Projective solution to the Yagi backfire antenna problem | [1976-1977] | | |
| | | 01 | 09 | 104 | [1976-1977] | Construction of triangular finite element universal matrices | [1976-1977] | | |
| | | 01 | 09 | 105 | [1976-1977] | Modal network representation of slot-embedded conductors | [1976-1977] | | |
| 2010 | 0146 | 01 | 09 | 106 | [1976-1977] | Automated data specification as a prelude to analysis | [1976-1977] | | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference | Comments |
|------|-----------|------------|--------|------------|-------------|---|-------------|-----------------|----------|
| 0040 | 0.4.40 | 0.4 | | 4.07 | [1070 1077] | | [1070 1077] | | |
| 2010 | 0146 | 01 | 09 | 107 | [1976-1977] | Three-dimensional solutions for high speed magnetic levitation | [1976-1977] | | |
| | | | | | | Exactly integrable curvilinear finite elements for potential | | | |
| | | 01 | 09 | 108 | [1976-1977] | problems | [1976-1977] | | |
| 2010 | 0146 | 01 | 09 | 109 | [1976-1977] | Planar Network Analysis Programs | [1976-1977] | | |
| | | | | | | A recursive method in eht E-Polarization of magnetotelluric | | | |
| 2010 | 0146 | 01 | 09 | 110 | [1976-1977] | modelling by high-order finite elements | [1976-1977] | | |
| | | | | | | A finite element technique for solving the 2-D open boundary | | | |
| 2010 | 0146 | 01 | 09 | 111 | [1978-1979] | problems | [1978-1979] | | |
| 0040 | 04.40 | 0.4 | 00 | 440 | [4070 4070] | The Oraclina high and all are mostically lavidated cabiela acceptance | [4070 4070] | | |
| 2010 | 0146 | 01 | 09 | 112 | [1978-1979] | The Canadian high speed magnetically levitated vehicle system | [1978-1979] | | |
| | | | | | | A finite element technique for solving the 2-D open boundary | | | |
| | | | 09 | 113 | [1978-1979] | problems | [1978-1979] | | |
| 2010 | 0146 | 01 | 09 | 114 | [1978-1979] | The Mag-Net 78 Finite Element Model Description Language | [1978-1979] | | |
| | | | | | | Finite element models of exterior regions containing moving | | | |
| 2010 | 0146 | 01 | 09 | 115 | [1978-1979] | conductors | [1978-1979] | | |
| | | | | | | Topgraphic effects in magnetotelluric modelling by high-order | | | |
| 2010 | 0146 | 01 | 09 | 116 | [1978-1979] | finite elements | [1978-1979] | | |
| | | | | | | Finite Elements for Magnetostatic Fields with Distributed | | | |
| 2010 | 0146 | 01 | 09 | 117 | [1978-1979] | Current Densities | [1978-1979] | | |
| | | | | | | Scalar Finite Element Solution of Magnetic Fields in | | | |
| | | | 09 | 118 | [1978-1979] | Axisymmetric Boundaries | [1978-1979] | | |
| | | 01 | 09 | 119 | [1980-1984] | The fundamental equations of electric and magnetic fields | [1980-1984] | | |
| 2010 | 0146 | 01 | 09 | 120 | [1980-1984] | ICEM - Athens - 1980 | [1980-1984] | | |
| | | | | | | Interactive computer graphics in magnetic field analysis and | | | |
| 2010 | 0146 | 01 | 09 | 121 | [1980-1984] | electric machine design | [1980-1984] | | |
| | | | | | | | | | |
| | | | 09 | 122 | [1980-1984] | A 3D Finite Element Analysis of Spherically Pinched Plasmas | [1980-1984] | | |
| 2010 | 0146 | 01 | 09 | 123 | [1980-1984] | Universal Finite element Matrices for Tetrahedra | [1980-1984] | | |
| | | | | | | The use of interactive postprocessing in the design of | | | |
| 2010 | 0146 | 01 | 09 | 124 | [1980-1984] | electromagnetic devices | [1980-1984] | | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference Comments |
|------|-----------|------------|--------|------------|-------------|---|-------------|--------------------------|
| 2010 | | 01 | 09 | 125 | [1980-1984] | The fundamental equations of electric and magnetic fields | [1980-1984] | |
| 2010 | | 01 | 09 | 126 | [1980-1984] | Software Engineering Aspects of Finite Elements | [1980-1984] | |
| 2010 | 0146 | 01 | 09 | 127 | [1980-1984] | Graphic Representations of Three-Component Vector Fields | [1980-1984] | |
| | | 01 | 09 | 128 | [1980-1984] | A memory-economic frontwidth reduction algorithm | [1980-1984] | |
| 2010 | | 01 | 09 | 129 | [1980-1984] | Permutation Rules for Simplex Finite Elements | [1980-1984] | |
| 2010 | 0146 | 01 | 09 | 130 | [1980-1984] | Tetrahedral finite element matrix primitives | [1980-1984] | |
| | | | | | | Three-Dimensional Magnetostatic Field Analysis of Electrical | | |
| 2010 | 0146 | 01 | 09 | 131 | [1980-1984] | Machinery by the Finite-Element Method | [1980-1984] | |
| | | | | | | A finite element analysis of the plasmas pinched in three | | |
| 2010 | | | 09 | 132 | [1980-1984] | dimensions | [1980-1984] | |
| 2010 | 0146 | 01 | 09 | | [1980-1984] | Interface finite element and design | [1980-1984] | |
| | | 01 | 09 | 134 | [1980-1984] | Interactive Modelling of Magnetization Curves | [1980-1984] | |
| | | | | | | A Raster Graphics Based Interactive Design System for the | | |
| 2010 | 0146 | 01 | 09 | 135 | [1980-1984] | Solution of the two-dimensional non-linear poisson equation | [1980-1984] | |
| | | | | | | Magnetic field computation in histeretic media by the finite | | |
| 2010 | 0146 | 01 | 09 | 136 | [1980-1984] | element method, using the preisach model | [1980-1984] | |
| | | | | | | | | |
| 2010 | | | 09 | 137 | [1980-1984] | A finite element database for electromagnetic field computation | [1980-1984] | |
| 2010 | 0146 | 01 | 09 | 138 | [1980-1984] | Automatic Adaptive Finite Element Mesh Generation | [1980-1984] | |
| | | | | | | Vector potential formulations for three-dimensional | | |
| 2010 | 0146 | 01 | 09 | 139 | [1980-1984] | magnetostatics | [1980-1984] | |
| | | | | | | An interactive empirical approach to the validation of software | | |
| 2010 | | | 09 | 140 | [1980-1984] | package specifications | [1980-1984] | |
| 2010 | 0146 | 01 | 09 | 141 | [1986-1989] | Equation solvers for comupter-adied engineering | [1986-1989] | |
| | | | | | | Approximate calculation of eddy current effects on resonant | | |
| 2010 | 0146 | 01 | 09 | 142 | [1986-1989] | oscillations in transformer windings | [1986-1989] | |
| | | | | | | | | |
| | | | | | | Calculation of Transformer Winding Resonances by a | | |
| 2010 | 0146 | 01 | 09 | 143 | [1986-1989] | Specialized Finite Element Method Employing Substructures | [1986-1989] | |
| | | | | | | Covariant projection elements for three dimensional vector | | |
| 2010 | | 01 | 09 | 144 | [1986-1989] | problems | [1986-1989] | |
| 2010 | 0146 | 01 | 09 | 145 | [1986-1989] | A graphics function standard specification validator | [1986-1989] | |
| | | | | | | Spurious Solutions to Vector Diffusion and Wave Field | | |
| 2010 | 0146 | 01 | 09 | 146 | [1986-1989] | Problems | [1986-1989] | |
| | | | | | _ | Spectrally correct finite element operators for electromagnetic | | |
| 2010 | 0146 | 01 | 09 | 147 | [1986-1989] | vector fields | [1986-1989] | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference Comments |
|------|-----------|------------|--------|------------|-------------|---|-------------|--------------------------|
| | | | | | | · | | |
| | | | | | | Three Dimensional Finite, Boundary, and Hybrid Element | | |
| 2010 | 0146 | 01 | 09 | 148 | [1986-1989] | Solutions of the Maxwell Equations for Lossy Dielectric Media | [1986-1989] | |
| | | | | | - | Weighted gaussian quadratures for singular and near-singular | - | |
| 2010 | 0146 | 01 | 09 | 149 | [1986-1989] | integrands | [1986-1989] | |
| | | 01 | 09 | 150 | [1986-1989] | Electromagnetics and finite elements | [1986-1989] | |
| 2010 | 0146 | 01 | 09 | 151 | [1990] | Introducing computer structure by machine simulation | [1990] | |
| 2010 | 0146 | 01 | 09 | 152 | [1991] | Small-computer simulation of logic circuits | [1991] | |
| | | | | | | On effective computational models for anisotropic soft B-H | | |
| 2010 | 0146 | 01 | 09 | 153 | [1991] | curves | [1991] | |
| | | | | | | Differentiation of finite element approximations to harmonic | | |
| 2010 | 0146 | 01 | 09 | 154 | [1991] | functions [with 3.5 floppy] | [1991] | |
| | | | | | | Computational modesl for staggered butted joints in laminated | | |
| 2010 | | | 09 | 155 | [1991] | ferromagnetics | [1991] | |
| 2010 | 0146 | 01 | 09 | 156 | [1991] | Symbolic computation as a basis for numerical methods | [1991] | |
| | | | | | | Extended Poisson kernels for differentiation of harmonic | | |
| | | | 09 | 157 | [1991] | functions | [1991] | |
| 2010 | 0146 | 01 | 09 | 158 | [1991] | User Interface Design for a Computer Simulator | [1991] | |
| | | | | | | | | |
| 2010 | 0146 | 01 | 09 | 159 | [1991] | Finite elements for reduced scalar magnetic potential problems | [1991] | |
| | | | | | | Computational error in reduced scalar magnetic potential | | |
| | | | 09 | 160 | [1991] | problems | [1991] | |
| 2010 | 0146 | 01 | 09 | 161 | [1992] | Computational models for laminated magnetic materials | [1992] | |
| | | | | | | Analytic solutions for the finite-difference time-domain and | | |
| 2010 | 0146 | 01 | 09 | 162 | [1992] | transmission-line-matrix methods [with 3.5 floppy] | [1992] | |
| | | | | | | Computer algebra in finite element software construction [with | | |
| 2010 | 0146 | 01 | 09 | 163 | [1992] | 3.5 floppy] | [1992] | |
| | | | | | | | | |
| | | | | | | Boundary-marching method for discontinuity analysis in | | |
| 2010 | 0146 | 01 | 09 | 164 | [1992] | waveguides of arbitrary cross section [with 3.5 and 5.25 disks] | [1992] | |
| | | | | | | Geometric modeling guidelines for absorbing boundary | | |
| | | | 09 | 165 | [1992] | conditions in finite element analysis [with 3.5 floppy] | [1992] | |
| | | 01 | 09 | 166 | [1992] | Finite elements in electrical engineering: The first 50 years | [1992] | |
| 2010 | 0146 | 01 | 09 | 167 | [1992] | Symbolic computation in finite element analysis | [1992] | |
| | | | | | | Torque computation by mean and difference potentials [with 3.5] | | |
| 2010 | 0146 | 01 | 09 | 168 | [1993] | floppy] | [1993] | |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross-Reference | Comments |
|------|-----------|------------|--------|------------|------------|---|--------|-----------------|----------|
| | | | | | | [Omeragic Comparative Differentation (on file)] A comparative | | | |
| | | | | | | experimental stduy of differentation methods on the finite | | | |
| 2010 | 0146 | 01 | 09 | 169 | [1993] | elements [with 3.5 floppy] | [1993] | | |
| | | | | | - | Symbolic computation for boundary element methods [with 3.5 | - | | |
| 2010 | 0146 | 01 | 09 | 170 | [1993] | floppy] | [1993] | | |
| | | | | | | [INTERMAG 93 (on file)] Differentiation algorithms for soft | | | |
| 2010 | 0146 | 01 | 09 | 171 | [1993] | magnetic material models [with 3.5 floppy] | [1993] | | |
| | | | | | | [Zhu-Zienkiewicz 3-D (on file)] A two-dimensional Zhu- | | | |
| | | | | | | Zienkiewicz method for gradient recovery from finite element | | | |
| 2010 | 0146 | 01 | 09 | 172 | [1993] | solutions [with 5.25 disk] | [1993] | | |
| | | | | | | [Omeragic Zhu-Zienkiewicz (on file)] Two-dimensional gradient | | | |
| | | | | | | recovery by local smoothing of finite element solutions [with 3.5 | | | |
| 2010 | 0146 | 01 | 09 | 173 | [1993] | floppy] | [1993] | | |
| | | | | | | [Symbolic computation of skin effect (on file)] Symbolic | | | |
| | | | | | | generation of finite elements for skin-effect integral equations | | | |
| 2010 | 0146 | 01 | 09 | 174 | [1993] | [with 3.5 floppy] | [1993] | | |
| | | | | | | [Dufresne (on file)] Database Structure for Plasma Modelling | | | |
| 2010 | 0146 | 01 | 09 | 175 | [1993] | Programs [with 3.5 floppy] | [1993] | | |
| | | | | | | [Finite Elements 1994-5 (on file)] Finite elements in | | | |
| 2010 | | | 09 | 176 | [1993] | electromagnetics: A jubliee review [with 3.5 floppy] | [1993] | | |
| 2010 | 0146 | 01 | 09 | 177 | [1993] | [Open Files (on file)] [with 3.5 floppy] | [1993] | | |
| | | | | | | [St. Petersburg 1994-5? (on file)] Finite Elements for Open- | | | |
| 2010 | 0146 | 01 | 09 | 178 | [1993] | Boundary Problems: Algorithms and Prospects | [1993] | | |
| | | | | | | [High-order differentiation of finite element solutions 1994 (on | | | |
| 2010 | 0146 | 01 | 09 | 179 | [1993] | file)] Differentiation of Helmoltz Equation [with 3.5 floppy] | [1993] | | |
| | | | | | | [Omeragic & Silvester (on file)] Extended Poisson kernels for | | | |
| 2010 | 0146 | 01 | 09 | 180 | | sectorial elements [with 3.5 floppy] | | | |
| | | | | | | [Extend Poisson Images 1995 (on file)] Extended Poisson | | | |
| | | | 09 | 181 | | kernels for sectorial elements [with 3.5 floppy] | | | |
| | | 01 | 09 | 182 | | [Unpublished 1995 (on file)] Electrostatic image formation | | | |
| 2010 | 0146 | 01 | 09 | 183 | | [Shape sensitivity of metal detectors] | | | |
| | | | | | | | | | |
| | 1 | | | | | [Differentiation of imprecise (RSC) 1995 (on file)] Differentiation | | | |
| 2010 | 0146 | 01 | 09 | 184 | | of imprecise multimensional data: A review (with 3.5 floppy) | | | |
| | | | | | | [Intermag 95 Asixymmetric (on file)] Numerical differentiation of | | | |
| 2010 | 0146 | 01 | 09 | 185 | | harmonic functions in axisymmetric coordinates (with 3.5 floppy) | | | |
| 2010 | 0146 | UΙ | บษ | 100 | | marmonic functions in axisymmetric coordinates (with 3.5 hoppy) | | | |

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|------|-----------|------------|--------|------------|------------|--|-------|-----------------|----------|
| 2010 | 0146 | 01 | 09 | 186 | | [Project Sphere-Map] (with 3.5 floppy) | | | |
| | | | | | | [Numerical differentiation in magnetic field processing] (with 3.5 | | | |
| 2010 | 0146 | 01 | 09 | 187 | | floppy) | | | |
| 2010 | 0146 | 01 | 09 | 188 | | [Numerical differentiation in magnetic field processing] | | | |
| | | | | | | [Progress in differentiation 1996 (on file)] Progress in | | | |
| 2010 | 0146 | 01 | 09 | 189 | | differentiation of approimate data (with 3.5 floppy) | | | |
| | | | | | | [Finite Elements for Piezoelectric Vibrations with Open Electric | | | |
| 2010 | 0146 | 01 | 09 | 190 | | Boundaries] author proof | | | |
| | | | | | | [No date (on file)] A new formulation based on scalar magnetic | | | |
| 2010 | 0146 | 01 | 09 | 191 | | potential and surface magnetic charge distribution | | | |
| 2010 | 0146 | 02 | | 1 | | Guide argent du système Unix | | | |
| 2010 | 0146 | 02 | | 2 | | Information & Computing - 26 | | | |
| 2010 | 0146 | 02 | | 3 | | Finite elements for electrical engineers | | | |
| 2010 | 0146 | 02 | | 4 | | System operacyjny Unix | | | |
| 2010 | 0146 | 02 | | 5 | | Finite elements for electrical engineers | | | |
| 2010 | 0146 | 02 | | 6 | | Elementos finitos para ingeniería eléctrica | | | |

File Listing
Disks and Slides

| Year | Increment | Media Code | Series | Sub-Series File Title | Description of File | Dates | Disc Format |
|------|-----------|------------|--------|-----------------------|------------------------------|-----------|---------------------|
| 2010 | | 04 | | slides | Magnet Eleven Show slides | | |
| 2010 | | 04 | | slide carasol | CAD Lecture with notes | | |
| 2010 | | 04 | | slides | loose sheet | | |
| 2010 | | 04 | | binder | CAD [slides] | | |
| 2010 | | 04 | | binder | [red binder untitled] slides | | |
| 2010 | | 09 | | 755-Mar96-1 | | | Mini Data Cartridge |
| 2010 | | 09 | | 755-Mar96-2 | | | Mini Data Cartridge |
| 2010 | 0146 | 09 | | | possibly blank discs | | Mini Data Cartridge |
| | | | | Courses 1992- | | | |
| 2010 | | 09 | | 95 | software courses | | Mini Data Cartridge |
| 2010 | 0146 | 09 | | Win3.1-os/2 | part 3, software courses | Mar-96 | Mini Data Cartridge |
| 2010 | | 09 | | Win3.1-os/2 | part 2, software courses | Mar-96 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | Win3.1-os/2 | part 1, software courses | Mar-96 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | TP-360 | software courses | 09-Sep-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | C-755 (1) | thinkpad | 30-Jun-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | C-755 (2) | thinkpad | 30-Jun-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | E-755 | thinkpad | 30-Jun-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | D-755 | thinkpad | 30-Jun-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | D-755 | thinkpad, archival | 06-Jun-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | Dell | Dell 386 archive | 10-Oct-94 | Mini Data Cartridge |
| 2010 | | 09 | | Dell | Dell 386 archive | 27-Dec-94 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | E.386 | Dell 386 archive | 07-Jun-94 | Mini Data Cartridge |
| | | | | F-G archive | | | |
| 2010 | 0146 | 09 | | 80386 old | Dell 386 archive | 07-Jul-94 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | D386 F386 | Dell 386 archive | | Mini Data Cartridge |
| 2010 | 0146 | 09 | | D 755 | thinkpad 755 | 17-Jul-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | E-755 | thinkpad 755 | 17-Jul-95 | Mini Data Cartridge |
| | | | | Think Pad 755 | | | |
| 2010 | 0146 | 09 | | original | thinkpad 755 | | Mini Data Cartridge |
| 2010 | 0146 | 09 | | C-755 (1) | thinkpad 755 | 17-Jul-95 | Mini Data Cartridge |
| 2010 | 0146 | 09 | | C-755 (2) | thinkpad 755 | | Mini Data Cartridge |
| | | | | Commercial | | | |
| 2010 | 0146 | 09 | | Software | commercial software | | Mini Data Cartridge |
| | | | | Commercial | | | |
| 2010 | 0146 | 09 | | Software | commercial software | | Mini Data Cartridge |

| Year | Increment | Media Code | Series | Sub-Series File Title | Description of File | Dates | Disc Format |
|------|-----------|------------|--------|-----------------------|---|-------------|---------------------|
| | | | | Commercial | | | |
| 2010 | 0146 | 09 | | Software | commercial software | | Mini Data Cartridge |
| | | | | | | | |
| 2010 | 0146 | 09 | | Watcom C++ 10 | commercial software | | Mini Data Cartridge |
| 2010 | 0146 | 09 | | | possibly blank discs | | Zip Disk |
| | | | | IBM 755 C Drive | | | |
| 2010 | 0146 | 09 | | 1 | | Oct-96 | Zip Disk |
| | | | | IBM 755 C Drive | | | |
| 2010 | 0146 | 09 | | 2 | | | Zip Disk |
| | | | | IBM 755 C Drive | | | |
| 2010 | 0146 | 09 | | 3 | | | Zip Disk |
| | | | | IBM 755 D Drive | | | |
| 2010 | 0146 | 09 | | 2 | E drive as well (1) | | Zip Disk |
| | | | | IBM 755 E Drive | | | |
| 2010 | 0146 | 09 | | 1 | | | Zip Disk |
| | | | | Thinkpad 755 C: | | | |
| | 0146 | 09 | | part 2 | | 17-Jul-95 | |
| 2010 | 0146 | 09 | | Zip Tools | | | Zip Disk |
| | | | | Corresp D E-old | | | |
| | | | | Zip Courses | | | |
| 2010 | 0146 | 09 | | 1988-95 | | 1995 | Zip Disk |
| | | | | CEIA Firenze | | | |
| 2010 | 0146 | 09 | | Courses | | winter 95/6 | Zip Disk |
| | | | | | Which computer There was a second IBM bought with NSERC | | |
| 2010 | 0146 | 09 | | Disk 1 C: drive | funds in 1995 | | Zip Disk |
| | | | | Disk 2 C: drive | Which computer There was a second IBM bought with NSERC | | |
| 2010 | 0146 | 09 | | Ddrive.zip | funds in 1995 | | Zip Disk |
| | | | | | Which computer There was a second IBM bought with NSERC | | |
| | | | | | funds in 1995 | | |
| | | | | | GR (Corel, gwswin, skedchate) | | |
| 2010 | 0146 | 09 | | C Drive | Windows Files (ini.bat.sys) | | Zip Disk |
| | | | | | Which computer There was a second IBM bought with NSERC | | |
| 2010 | 0146 | 09 | | D: | funds in 1995 | | Zip Disk |
| | | | | | Which computer There was a second IBM bought with NSERC | | |
| | | | | | funds in 1995 | | |
| 2010 | 0146 | 09 | | D Drive | (Comm, mg, qpw, symatec) | | Zip Disk |

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Disc Format |
|------|-----------|------------|--------|------------|-------------------|---|--------|-------------|
| | 0146 | 09 | | | 428 (2) | grey container | | 3.5 floppy |
| 2010 | 0146 | 09 | | | 428 (1) | grey container | | 3.5 floppy |
| | | | | | C 428-1 | | | |
| | | | | | Distribution disk | | | |
| | 0146 | 09 | | | class list | grey container | | 3.5 floppy |
| | 0146 | 09 | | | 428 (3) | grey container | | 3.5 floppy |
| 2010 | 0146 | 09 | | | Undergraduates | grey container | 1988 | 3.5 floppy |
| | | | | | Finite Elements | | | |
| | | | | | for Electrical | | | |
| 2010 | 0146 | 09 | | | Engineers | grey container, laboratory disk | | 3.5 floppy |
| | | | | | Finite Elements | | | |
| | | | | | for Electrical | | | |
| 2010 | 0146 | 09 | | | Engineers | grey container, laboratory disk | | 3.5 floppy |
| | | | | | Silvester & | | | |
| 2010 | 0146 | 09 | | | Ferrari | grey container, laboratory disk | Sep-89 | 3.5 floppy |
| | | | | | Silvester & | | | |
| 2010 | 0146 | 09 | | | Ferrari | grey container, laboratory disk (development) | | 3.5 floppy |
| | | | | | Florence | | | |
| | | | | | Lectures Disk | | | |
| 2010 | 0146 | 09 | | | 1/2 | grey container | 1994 | 3.5 floppy |
| | | | | | Short Courses | | | |
| | 0146 | 09 | | | (Organization) | grey container | | 3.5 floppy |
| 2010 | 0146 | 09 | | | Short Courses | grey container | | 3.5 floppy |
| 2010 | 0146 | 09 | | | Undergraduates | grey container | | 3.5 floppy |
| | | | | | Lab Disks | | | |
| | | | | | (Compuserve, | | | |
| 2010 | 0146 | 09 | | | Lab disk, book) | grey container | | 3.5 floppy |
| | | | | | Grant | | | |
| 2010 | 0146 | 09 | | | Applications | grey container | | 3.5 floppy |
| | | | | | Short Courses | | | |
| | | | | | Programs & | | | |
| 2010 | 0146 | 09 | | | Examples | grey container | | 3.5 floppy |
| | | | | | Course 304-352 | | | |
| 2010 | 0146 | 09 | | | (1-7) | grey container | 1994 | 3.5 floppy |
| | | | | | Course 304-352 | | | |
| 2010 | 0146 | 09 | | | (8-15) | grey container | 1994 | 3.5 floppy |

Disks & Slides

| Year | Increment | Media Code | Series | Sub-Series File Title | Description of File | Dates | Disc Format |
|------|-----------|------------|--------|---------------------------|---------------------|---------|-------------|
| | | | | Course 304-352 | | | |
| 2010 | 0146 | 09 | | (16-20) | grey container | 1994 | 3.5 floppy |
| 2010 | 0146 | 09 | | 304-352 Exam | grey container | Dec-93 | 3.5 floppy |
| 2010 | 0146 | 09 | | Course 304-352 | grey container | 1993-94 | 3.5 floppy |
| | | 09 | | 304-428 pictures | | | 3.5 floppy |
| 2010 | 0146 | 09 | | 428 | grey container | | 3.5 floppy |
| | | | | metal detector | | | |
| 2010 | 0146 | 09 | | CEFC | grey container | 1996 | 3.5 floppy |
| 2010 | 0146 | 09 | | Sphere-Map | grey container | | 3.5 floppy |
| | | | | Florence Lectures Disk | | | |
| 2010 | 0146 | 09 | | 2/2 | grey container | 1994 | 3.5 floppy |
| 2010 | 0146 | | | Iomega Zip Drive | | | |

File Listing Mixed Box

Mixed Box

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross Reference |
|------|-----------|------------|--------|------------|-------------------|--|-----------|--------------------|
| 2010 | 0146 | 09 | 01 | 1 | PPS citations sea | 3.5 floppy | | |
| 2010 | 0146 | 02 | | 7 | | Unix: Una Guida Introduttiva | | |
| 2010 | 0146 | 02 | | 8 | | Finite elements in electrical and magnetic field problems | | |
| 2010 | 0146 | 02 | | 9 | | [unknown] | | |
| 2010 | 0146 | 02 | | 10 | | Campos Eletromagnéticos modernos | | |
| | | | | | | guest book from the APS/URSI special session in memory of, | | |
| 2010 | 0146 | 12 | 01 | 1 | | with photographs | 1997 | |
| 2010 | 0146 | 12 | 01 | 2 | [Personal Diary] | diary of trip to Canada and Yukon trip | 1948-1951 | |
| 2010 | 0146 | 03 | | 1 | | diploma | | 2010-0146.01.09.22 |
| 2010 | 0146 | 03 | | 2 | | diploma | | 2010-0146.01.09.33 |

| Comments | | | | | | | |
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File Listing
Photos & Microfiche

| Year | Increment | Media Code | Series | Sub-Series | File Title | Description of File | Dates | Cross Reference | Comments |
|------|-----------|------------|--------|------------|------------------|---|--------------|--------------------|--|
| | | | | | | | | | 6 black and white 6"X10" photographs |
| | | | | | | | | | of winter scenes, tucked inside back of |
| 2010 | 0146 | 04 | 1 | | [Personal Diary] | | 1974-1980 | 2010-0146.01.01.5 | personal log book |
| | | | | | | | | | 11 black and white portraits of |
| | | | | | | | | | PPSilvester, various sizes; 4 colour |
| | | | | | | | | | portraits of PPSilvester, 4"X6"; 6 group |
| | | | | | | | | | photographs, various sizes; 4 black and |
| | | | | | | | | | white wallet photographs of unknown |
| | | | | | | | | | woman; 1 35mm negative strip |
| | | | | | | | | | (negative strip corresponds to printed |
| 2010 | 0146 | 04 | 2-3 | | Photos | original black &white colour copies; colour; 35mm negatives | c. 1958-1996 | 2010-0146.01.01.6 | image in 2010-0146.04.3) |
| | | | | | | | | | 3 colour photographs, possibly from the |
| 2010 | 0146 | 04 | 4 | | | guest book [possibly from funeral service], with photos | c.1996 | | |
| | | | 5 | | Yoshimoto | copy of articles; correspondence; photos | 1983-1994 | 2010-0146.01.02.9 | 2 colour photographs, 4 1/2"X3 1/4" |
| | | | | | | | | | |
| | | | | | | SPICE 5.25 disks; copy of article Toward a Formal Standard of | | | |
| | | | | | Computational | the SPICE Circuit Description Language; publishing agreement | | | |
| | | | _ | | Mechanics | to be editor of conference proceedings; photographs; 3.5 floppy | | | |
| | | | 6 | | Publications | for Data Structures in Engineering Software | 1990-1993 | 2010-0146.01.05.1 | 6 black and white photographs, 5"X7" |
| | | | _ | | Finite Element | | | | |
| | | | 7 | | Course | timetable; colour 35mm slides | 1987 | | 50 35mm colour slides |
| | | | 8 | | 1966 | A Practical Skin-effect Computing Network | | | 2 black and white photographs, 4"X6" |
| | | | 9 | | 1966 | Modal Network Theory of Skin Effect in Flat Conductors | | 2010-0146.01.09.5 | 3 black and white portraits, wallet size |
| | | 10 | 1 | | [1968-1969] | Contour Plotting Routine for Line Printers | [1968-1969] | 2010-0146.01.09.17 | 1 microfiche |
| | | 10 | 2 | | [1968-1969] | High Order Finite Element Waveguide Analysis | [1968-1969] | 2010-0146.01.09.20 | 1 microfiche |
| | | 10 | 3 | | [1968-1969] | Capacitance Determination for Infinite Interdigital Structures | [1968-1969] | 2010-0146.01.09.24 | 1 microfiche |