

585221 881034079, C81023028
 FRENCH HOMES TO GET THEIR OWN DATA BUS
 DREYFACK, K.
 ELECTRONICS (USA) VOL. 54, NO. 9 81-2 5 MAY 1981
 Coden: ELECAD

Treatment: APPLIC: GENERAL REVIEW
 Document type: JOURNAL PAPER
 DESCRIBES SIDAVO, A DYNAMIC AUDIO VIDEO INTERCONNECTION SYSTEM WHICH IS DESIGNED TO ENABLE CONSUMERS TO CONNECT UP TO 32 PIECES OF EQUIPMENT VIA A SINGLE CONNECTOR. THE CONNECTOR IS STANDARDISED 21-PIN DEVICE WHICH ENABLES THE CONNECTION OF VIDEO CASSETTE RECORDERS, TELETEXT DECODERS, DIRECT BROADCAST SATELLITE CONVERTORS, AND HIGH-FIDELITY AUDIO EQUIPMENT, TO COLOUR TELEVISION SETS. THE SIDAV BUS IS CONTROLLED USING A MICROPROCESSOR.

568837 881029412
 DESIGN OF A PRODUCT CODE FOR IMPROVING THE RANGE AND QUALITY OF THE CANADIAN BROADCAST TELIDON SYSTEM

SABLATASH, M.; STOREY, J.R.
 DEPT. OF COMMUNICATIONS, COMMUNICATIONS RES. CENTRE, OTTAWA, ONTARIO, CANADA
 SPONSOR: IEEE

NTC 080. IEEE 1980 NATIONAL TELECOMMUNICATIONS CONFERENCE
 52.2/1-7 1980

30 NOV. - 4 DEC. 1980 HOUSTON, TX, USA
 Publ: IEEE. NEW YORK, USA
 4 VOL. (480+528+522+272) pp.

Treatment: APPLIC
 Document type: REPORT SECTION
 (10 Refs)

STUDIES HAVE SHOWN THAT A REDUCTION IN BIT ERROR RATES THROUGH THE USE OF ERROR-CORRECTING CODES WOULD RESULT IN IMPROVED RANGE OF RECEPTION, WITH REDUCED WAITING TIMES. FOR DIGITAL DATA BROADCAST AS ANCILLARY SIGNALS ON TV CHANNELS. A SIMPLE PRODUCT CODE OF MINIMUM DISTANCE 4, WHICH CORRECTS SINGLE ERRORS, AS WELL AS OTHER PATTERNS, AND DETECTS DOUBLE ERRORS, AS WELL AS OTHER PATTERNS, WOULD CORRECT ABOUT 60 PERCENT OF ALL ERRORS IN CERTAIN CHANNELS. THE DESIGN OF THIS PRODUCT CODE, NOW IMPLEMENTED FOR FIELD TRIALS, FOR APPLICATION TO THE DATA OF CANADIAN BROADCAST TELIDON SIGNALS TO PROVIDE FORWARD ERROR CORRECTION IS DESCRIBED WITH CURVES WHICH SHOW FOR $P_{10}/SUP - 3/$, THE VERY SUBSTANTIAL IMPROVEMENTS DUE TO CODING. IN MEAN NUMBER OF PAGES VIEWED BEFORE A BLOCK OF DATA MUST BE RETRIEVED AGAIN FROM THE CIRCULATING FIELD. EQUATIONS ARE GIVEN FOR ERROR PROBABILITY, MEAN NUMBER OF PAGES TO DECODING FAILURE, DECODING ERROR, FALSE ERROR CORRECTION AND UNDETECTABLE ERROR, AS WELL AS FOR EFFICIENCIES AND OPTIMAL BLOCK LENGTH. CURVES AND TABLES SHOW THE RELATIONSHIPS AND TRADEOFFS AMONG KEY VARIABLES.

568832 881029394
 RECEPTION SYSTEMS FOR BROADCAST TELETEXT
 ROY, Y.
 CBC/RADIO-CANADA, MONTREAL, CANADA
 BROADCAST TECHNOL. (CANADA) VOL. 6, NO. 3 25-7 JAN.-FEB. 1981
 Coden: BRTE4

Treatment: PRACTICAL APPLIC
 Document type: JOURNAL PAPER
 THE HIGH SPEED OF TRANSMISSION OF TELETEXT INFORMATION REQUIRES CAREFUL PLANNING OF THE RECEPTION APPARATUS. BECAUSE EXPERIMENTS HAVE SHOWN THAT DECODING ERRORS CAN OCCUR BECAUSE OF THE FOLLOWING PROBLEMS: GHOSTING OR MULTI-PATH RECEPTION; MISMATCH IN THE ANTENNA LEAD-IN CAUSING ECHOS; PHASE NON-LINEARITY IN THE RF AND IF SECTIONS OF THE TV RECEIVER; AND NON-LINEAR ENVELOPE DETECTION OF THE RECEIVED SIGNAL. THE TV VIEWER WHO IS CONTEMPLATING THE RECEPTION OF TELETEXT HAS A NUMBER OF CHOICES; THIS ARTICLE DESCRIBES THREE SYSTEMS.

545588 881020795, C81015181
 EXPLORING TELETEXT AS A RESOURCE

ANDERSON, J.S.A.
 NEW UNIV. OF ULSTER, COLERAINE, N. IRELAND
 PROGRAM. LEARN. AND EDUC. TECHNOL. (GB) VOL. 17, NO. 1
 27-35 FEB. 1980 Coden: PLETAJ

Treatment: APPLIC
 Document type: JOURNAL PAPER
 (8 Refs)

REPORTS THE FIRST DETAILED EXAMINATION OF THE POTENTIAL OF TELETEXT AS A CURRICULAR RESOURCE RIGHT ACROSS THE SCHOOL CURRICULUM AND ALSO AS A MORE GENERAL EDUCATIONAL INFORMATION RESOURCE. THE EXAMINATION WAS PURSUED THROUGH THE MEDIUM OF TWO CURRICULUM DESIGN AND DEVELOPMENT TASKS CARRIED OUT BY STUDENT TEACHERS. ONE TASK INVOLVED THE USE OF CURRENTLY AVAILABLE PAGES FROM TELETEXT; THE SECOND EXPLORED EDUCATIONAL EXTENSION OF SCREENED-OUT DATA TECHNIQUES. OUTCOMES OF BOTH TASKS ARE ANALYSED SEPARATELY AND IMPLICATIONS ARE ADDRESSED TO TEACHER EDUCATORS. TELETEXT SYSTEMS DEVELOPERS AND DEVELOPERS OF EDUCATIONAL APPLICATIONS OF VIEWDATA (VIDEOTEX) AND TELESOFTWARE SYSTEMS.

545583 B81020769, C81015176
TELESOFTWARE-THE COMPUTER IN YOUR TV SET
HEDGER, J.
NEW ELECTRON. (GB) VOL.13, NO.24 50, 52, 54, 56, 58 9
DEC. 1980 Coden: NWELAC

Treatment: GENERAL REVIEW

Document Type: JOURNAL PAPER
DISCUSSES TELESOFTWARE AS A MEANS OF PROVIDING SOFTWARE TO
HOME COMPUTER USERS WITH THE DATA TRANSMISSION SYSTEM USED FOR
CEEFAX AND ORACLE BROADCASTS. IT PROMISES A DEGREE OF
INTERACTION, WHICH SHOULD HELP TO MAKE TELETEXT MORE
COMPETITIVE WITH VIEWDATA.

530731 A81027735, B81014577, C81009921
INNOVATIONS IN CANADA
WALKER, D.M.
ONTARIO EDUCATIONAL COMMUNICATIONS AUTHORITY, TORONTO,
ONTARIO, CANADA

EBI (EDUC. BROADCAST. INT.) (GB) VOL.13, NO.3 115-17
SEPT. 1980 Coden: EGINAU

Treatment: GENERAL REVIEW

Document Type: JOURNAL PAPER

THE CANADIAN VERSION OF TELETEXT-TELIDON IS DESCRIBED.
UNLIKE OTHER TELETEXT SYSTEMS, TELIDON USES AN ALPHA-GEOMETRIC
APPROACH, WHICH DOES NOT REQUIRE IMAGES TO BE FORMED BY
PICKING OUT COORDINATES ON A MOSAIC GRID. TELIDON INCORPORATES
FEATURES WHICH MAKE IT AN EDUCATIONAL MEDIUM IN ITS OWN RIGHT.
FUTURE DEVELOPMENTS ARE DISCUSSED. THE PROGRAMME EVALUATION
ANALYSIS COMPUTER IS ALSO DESCRIBED. IT CONSISTS OF A
PORTABLE, WIRELESS, MICROCOMPUTER-BASED MACHINE, CAPABLE OF
RECORDING MOMENT-TO-MOMENT REACTIONS TO TELEVISION PROGRAMMING
BY LARGE GROUPS OF SUBJECTS WHILE THEY VIEW.

529243 B81016529
ARCHITECTURE OF THE FRENCH LSI SET FOR ANTIPOE TELETEXT
DECODERS

NOIREL, Y.; MARTI, B.; POIGNET, A.
ANTIOPE VIDEOEX SYSTEM INC., PARIS, FRANCE
MARCUS, R. (Editors)

DIGITAL VIDEO, VOL.3, SMPTE'S 14TH TELEVISION CONFERENCE
125-44 1980

1-2 FEB. 1980 TORONTO, ONT., CANADA
Publ. 1980, SMPTE

230 pp.

Treatment: APPLIC. PRACTICAL APPLIC

Document Type: REPORT SECTION
THE ANTIPOE VIDEOEX SYSTEM IS COMPOSED OF TWO COMPLETELY
SEPARATE PARTS. THE DATA TRANSMISSION SYSTEM (DIDON) AND THE
DISPLAY SYSTEM (ANTIOPE). THE DATA TRANSMISSION SYSTEM DERIVES
FROM A CCETT STANDARDIZED PROTOCOL WHICH CAN BE USED FOR
TELETEXT AS WELL AS FOR OTHER KIND OF DATA SERVICES SUCH
AS FACSIMILE OR REMOTE CONTROL. THE ENTIRE AVAILABILITY OF A

DISCONTINUED 819 LINE TELEVISION SYSTEM WITHIN FRANCE AND THE
POSSIBILITY OF USING THAT NETWORK FOR DATA BROADCAST HAS
PUSHED THE DEVELOPMENT OF DIDON AND THE LSI REQUIRED FOR ITS
USE.

518515 B81012208, C81009296
PE TELETEXT WITH INFRA-RED REMOTE CONTROL. IV
SHORTLAND, D.
PRACT. ELECTRON. (GB) VOL.16, NO.11 48-51 NOV. 1980
Coden: PRELBY

Treatment: PRACTICAL APPLIC

Document Type: JOURNAL PAPER
FOR PT.III SEE IBID., VOL.16, NO.10, P.56-61 (1980). THIS
CONCLUDING PART DESCRIBES THE WIRING, TESTING AND TUNING OF
THE UNIT. THE TELETEXT DECODER ALIGNMENT PROCEDURE FOR THE
ADJUSTMENT OF THE FIELD SYNCHRONISATION, THE CRYSTAL
FREQUENCY, THE CLOCK PHASE AND THE CLOCK COIL IS EXPLAINED.

513855 B81012210, C81006301
VIEWDATA AND THE INFORMATION AGE. II. THEORY INTO PRACTICE
STOKES, A.
PERS. COMPUT. WORLD (GB) VOL.3, NO.5 63-4 MAY 1980
Coden: PCWODU

Treatment: APPLIC

Document Type: JOURNAL PAPER
CONSIDERS TASKS TO WHICH VIEWDATA AND TELETEXT CAN BE PUT
WITH PARTICULAR REFERENCE TO THE USE OF MICROCOMPUTERS AS
VIDEOEX RECEIVERS (AND VICE VERSA).

503592 B81008147, C81005759
DIGITAL TV COMMUNICATION NETWORK AS A USAGE OF
MICROCOMPUTERS IN JAPAN

SPONSOR: IEEE
PROCEEDINGS OF DISTRIBUTED COMPUTING. COMPCON 80.
TWENTY-FIRST IEEE COMPUTER SOCIETY INTERNATIONAL CONFERENCE
741-4 1980

23-25 SEPT. 1980 WASHINGTON, DC, USA
Publ: IEEE. NEW YORK, USA

X1+746 pp.
Treatment: GENERAL REVIEW
Document Type: REPORT SECTION
(4 Refs)

IN JAPAN, A SYSTEM OF SERVICING INFORMATION FROM A COMPUTER CENTER, USING TV BROADCASTING SIGNALS AND TELEPHONE CIRCUITS HAS STARTED TO BE ADOPTED FOR PRACTICAL APPLICATION. PRESTEL IN ENGLAND AND THE TELETEXT SYSTEM IN THE US CANNOT TRANSIT SUCH IDEOGRAPHS AS CHINESE CHARACTERS. THIS PAPER INTRODUCES HOW THE TRANSMISSION OF IDEOGRAPHS HAS BEEN MADE POSSIBLE THROUGH THE JAPANESE SYSTEM. THE PAPER ALSO DESCRIBES A NEW INPUT SYSTEM OF CHARACTERS AND PATTERNS, WHICH THE WRITER AND OTHERS ARE DEVELOPING.

503563 B81007651, C81005730
PE TELETEXT WITH INFRA-RED REMOTE CONTROL. III. VIDEO SUMMER BOARD AND PSU

SHORTLAND, D.
PRACT. ELECTRON. (GB) VOL. 16, NO. 10 56-61 OCT. 1980
Codex: PRELBY

Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER

FOR PT. II SEE IBID., VOL. 16, NO. 9, P. 42-5 (1980). STATES THAT IN ADDITION TO THE R, G AND B SIGNALS FROM THE CHARACTER GENERATOR THE TEA 1002 REQUIRES A NUMBER OF TIMING SIGNALS. THESE ARE ALL DERIVED FROM SIGNALS AVAILABLE IN THE TELETEXT DECODER. THE PAL SWITCH INPUT IS A SQUARE WAVE AT HALF LINE FREQUENCY WHICH CHANGES THE COLOUR BURST PHASE ON ALTERNATE LINES TO PROVIDE CORRECT PAL ENCODING. THE REMAINDER OF THE CIRCUIT CONSISTS OF A BLACK LEVEL CLAMP WHICH CALPS THE TV VIDEO BLACK LEVEL TO THAT OF THE TEA 1002 VIDEO OUTPUT, AND AN ANALOGUE SWITCH TO SELECT EITHER THE TV VIDEO INFORMATION OR THE ENCODED TELETEXT DISPLAY.

503562 B81008144, C81005729
PE TELETEXT WITH INFRA-RED REMOTE CONTROL. I

SHORTLAND, D.
PRACT. ELECTRON. (GB) VOL. 16, NO. 8 38-44 AUG. 1980
Codex: PRELBY

Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
DESCRIBES THE PE TELETEXT SYSTEM, WHICH HAS BEEN DESIGNED

AROUND THE MULLARD SET OF DEDICATED LSI CHIPS TO ENABLE A TV SET TO DECODE AND DISPLAY THE MAGAZINE INFORMATION SERVICES TRANSMITTED BY BOTH THE BBC AND ITV NETWORKS (CEEFAX, ORBIT AND ORACLE). TO REDUCE SETTING UP AND ALIGNMENT PROBLEMS THE DECODER BOARD IS AVAILABLE FULLY ALIGNED AND TESTED. THE VIDEO SUMMER BOARD ENABLES AN EXCELLENT TELETEXT DISPLAY TO BE OBTAINED VIA THE AERIAL SOCKET OF A TV.

499530 B81007650, C81002680
TELETEXT WITH INFRA-RED REMOTE CONTROL. II. TUNER AND DECODER

SHORTLAND, D.
PRACT. ELECTRON. (GB) VOL. 16, NO. 9 42-9 SEPT. 1980
Codex: PRELBY

Document Type: JOURNAL PAPER
FOR PT. I SEE IBID., VOL. 16, NO. 8, P. 38-44 (1980). THE TUNER EMPLOYS THE MULLARD U321 PRE-ALIGNED SIGNAL SECTION WHICH FEATURES A PIN DIODE ATTENUATOR TO PROVIDE THE AGC SYSTEM. THE IF SECTION IS THAT USED IN THE PHILIPS G11 TV CHASSIS. THE OUTPUT OF THIS IS APPLIED THROUGH THE VISION SELECTIVITY MODULE TO PRODUCE A VIDEO SIGNAL. THE DECODER IS DESIGNED AROUND FOUR LSI ICs. THREE MOS N-CHANNEL DEVICES AND A MONOLITHIC BIPOLAR TYPE. THE DECODER HAS TWO MAIN FUNCTIONS, AND TO EXTRACT THE TELETEXT DATA FROM THE INCOMING VIDEO SIGNAL AND TO PROCESS IT. THE TIMING SYSTEM OF THE TELETEXT DISPLAY IS PHASE-LOCKED WITH THE INCOMING TELEVISION PICTURE SIGNAL.

489474 BR1003164, C81002681
THE MEASUREMENT OF TELETEXT PERFORMANCE OVER THE UNITED
KINGDOM TELEVISION NETWORK

SHERRY, L.A.; HILLS, R.C.
IBA, WINCHESTER, ENGLAND
RADIO AND ELECTRON. ENG. (GB) VOL. 50, NO. 10 503-18
OCT. 1980 Coden: RDEE44

Treatment: EXPERIMENTAL
Document type: JOURNAL PAPER

(12 Refs)
SUMMARIZES THE RESULTS OF EXTENSIVE TELETEXT FIELD TRIALS
CONDUCTED IN THE UK BETWEEN MARCH 1976 AND MARCH 1978.
CONSIDERATION IS GIVEN TO THE TELETEXT PERFORMANCE OF THE UHF
TELEVISION NETWORK. THE EXTENT OF RECEPTION IN THE HOMES OF
VIEWERS AND THE PERFORMANCE OF TELETEXT DECODERS. THE RESULTS
INDICATE THAT THE SERVICE WILL BE PREDOMINANTLY FIELD STRENGTH
LIMITED PROVIDED VIEWERS USE WELL-INSTALLED OUTDOOR AERIALS.
IT IS SUGGESTED THAT DATA REGENERATION MAY BE USED TO
ADVANTAGE TO ENSURE THE HIGHEST POSSIBLE STANDARDS OF RADIATED
PERFORMANCE FROM CERTAIN STATIONS. THIS IS BECAUSE, TO A LARGE
EXTENT, TRANSMITTER GROUP DELAY ERRORS BECOME MORE SIGNIFICANT
FOR TELETEXT THAN FOR TELEVISION. THE PAPER CONCLUDES THAT AN
ADEQUATE TELETEXT SERVICE IS AVAILABLE TO A HIGH PERCENTAGE OF
THE EXISTING TELEVISION AUDIENCE. PROVIDED PRODUCTION
RECEIVERS HAVE A DECODING THRESHOLD APPROACHING 25PERCENT
EYEHEIGHT.

489448 BR1002572, C81002654
ADAPTATION OF UK TELETEXT SYSTEM FOR 525/60 OPERATION
CROWTHER, G.O.
MULLARD LTD., MITCHAM, ENGLAND
IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-26, NO. 3
587-99 AUG. 1980 Coden: ITCEDA

Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER

(6 Refs)
DISCUSSES THE MORE DEFINITIVE PROPOSAL MADE BY A JOINT
COMMITTEE CONSISTING OF BREMA, BBC, AND IBA DELEGATES FOR A
525 LINE SYSTEM BASED ON THE EXTENSIVE EXPERIENCE IN THE UK
AND THE FUTURE ENHANCEMENT TECHNIQUES DEVELOPED FOR EUROPE.
WHEN INTRODUCING A TELETEXT SYSTEM WITH PERHAPS ONLY ONE OR
TWO LINES IN THE FIELD PLAYBACK PERIOD, IT IS ESSENTIAL TO HAVE
A SIMPLE SYSTEM TO LAUNCH THE SERVICE. THIS SIMPLE SYSTEM
SHOULD NOT CARRY THE OVERHEADS OF A MORE SOPHISTICATED SYSTEM
DESIGNED FOR THE FUTURE. EITHER IN TERMS OF TRANSMISSION TIME
OVERHEADS OR DECODER COSTS. THIS PAPER OUTLINES A HIERARCHY OF
SYSTEMS FROM THE PRESENT UK SYSTEM TO A SYSTEM CAPABLE OF
DISPLAYING STILL PICTURES WITH A RESOLUTION LIMITED ONLY BY
THE DISPLAY DEVICE.

HEDGER, J.; RAGGETT, M.; WARBURTON, A.
IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-26, NO. 3
555-67 AUG. 1980 Coden: ITCEDA

Treatment: GENERAL REVIEW
Document type: JOURNAL PAPER

BY MERGING THREE MODERN TECHNOLOGIES TELETEXT,
MICROPROCESSORS AND TV GAMES, A COMPOSITE TECHNOLOGY CALLED
TELESOFTWARE HAS RESULTED. TELETEXT ITSELF AIMS AT PROVISION
OF INFORMATION, EDUCATION AND ENTERTAINMENT, AND TELESOFTWARE
IS DESIGNED TO ENHANCE THE NORMAL TELETEXT SERVICE BY
PROVIDING THE ORDINARY CITIZEN WITH THE OPPORTUNITY TO HAVE
CONSIDERABLE COMPUTING POWER AVAILABLE AT HIS FINGERTIPS. HE
CAN USE THIS COMPUTING POWER FOR A WIDE VARIETY OF PURPOSES,
WITHOUT ANY KNOWLEDGE OR EXPERIENCE OF COMPUTERS BEING
NECESSARY ON HIS PART. SINCE THE ENTIRE SYSTEM ALLOWS HIM TO
CONVERSE WITH HIS TELEVISION RECEIVER IN A WAY NOT PREVIOUSLY
POSSIBLE, AND IT CAN ENRICH AND ENHANCE THE INFORMATION
ALREADY AVAILABLE VIA TELETEXT BY MANIPULATING IT EXACTLY
ACCORDING TO HIS WISHES.

484966 BR1002552
RESULTS OF TELETEXT FIELD TRIALS TRANSMITTED OVER THE ARD
AND ZDF TELEVISION NETWORKS
HOFFMAN, H.; LAU, A.
CABLE TELEV. ENG. (GB) VOL. 11, NO. 7 343-9 AUG. 1980
Coden: CTEVB3

Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER

A SERIES OF MEASUREMENTS TO INVESTIGATE THE RECEPTION OF
VIDEOTELETEXT SIGNALS TRANSMITTED TO THE UK TELETEXT STANDARD HAVE
BEEN PERFORMED. IT WAS NECESSARY, IN PARTICULAR, TO FIND OUT
WHETHER THERE WERE ANY GREAT DIFFERENCES BETWEEN THE RECEPTION
OF THE ANALOGUE TELEVISION SIGNAL AND THAT OF THE DIGITAL
VIDEOTELETEXT SIGNAL. THE REQUIREMENT, TO SUPPLY EACH OF 8
TRANSMITTERS WITH BOTH VIDEOTELETEXT TEST SIGNALS AND A
MEASUREMENT VEHICLE UNIFORMLY EQUIPPED WITH INSTRUMENTS FOR
CHECKING VIDEOTELETEXT RECEPTION, PRECLUDED THE USE OF SPECIALIZED
INSTRUMENTS, E.G. EQUIPMENT FOR MEASURING EYE HEIGHT OR ERROR
RATE, THAT WOULD HAVE LONG DEVELOPMENT OR DELIVERY TIMES. IT
WAS ALSO NECESSARY, IN ADDITION TO DESIGNING A SUITABLE
VIDEOTELETEXT TEST PAGE, TO DEVELOP A SIMPLE AND DEPENDABLE METHOD
OF DETERMINING VIDEOTELETEXT RECEPTION THAT WOULD PERMIT THE USE
OF DOMESTIC TELEVISION RECEIVERS EQUIPPED WITH THE MOST
UP-TO-DATE DECODERS OBTAINABLE.

484951 B81002513
POTENTIAL OF EXTENDED TELETEXT
CHAMBERS, J.P.
TELEVISION (J. R. TELEV. SOC.) (GB) VOL. 18, NO. 5 43-5
SEPT.-OCT. 1980 Coden: TELED3
Treatment: GENERAL REVIEW
Document Type: JOURNAL PAPER
(5 Refs)

THE UK TELETEXT SYSTEM HAS BEEN A FULL PUBLIC SERVICE FOR FOUR YEARS, AND THE SYSTEM SPECIFICATION PUBLISHED IN 1976 HAS REMAINED UNALTERED. THE EXPERIENCE OF TENS OF THOUSANDS OF TELETEXT RECEIVERS IN HOMES THROUGHOUT THE COUNTRY HAS ESTABLISHED BEYOND DOUBT THAT THE SYSTEM RESTS ON A FIRM TECHNICAL FOUNDATION. IN PARTICULAR, THE HIGH BIT-RATE CHOSEN FOR THE SYSTEM IS COMFORTABLY WITHIN THE CAPABILITIES OF THE RECEIVERS AND DECODERS NOW AVAILABLE. THE UK TELETEXT SYSTEM CAN BE EXTENDED TO PROVIDE A HIERARCHY OF NEW FACILITIES WHILE MEETING THE STRICT NEEDS OF COMPATIBILITY WITH EXISTING DECODERS. AS FAR AS POSSIBLE THE SUBJECT MATTER IS PRESENTED IN THE SAME SEQUENCE AS IN THE BBC/IBA/BREMA TELETEXT SPECIFICATION.

459106 B80050019
ELECTRONIC OFFICES
MCCOOL, J.
NEW ELECTRON. (GB) VOL. 13, NO. 13 91-2, 95-6 24 JUNE 1980 Coden: NWELAC
Treatment: GENERAL REVIEW
Document Type: JOURNAL PAPER

THE ELECTRONIC OFFICE IS AN OFFICE WHERE THE USE OF COMPUTERS AND ELECTRONIC INFORMATION PROCESSING HAS REACHED THE POINT WHERE PAPER IS VIRTUALLY DONE AWAY WITH. EXPERTS PREDICT THAT, INSTEAD OF A DESK, THE OFFICE WORKER OF THE FUTURE WILL HAVE A WORK STATION THAT WILL CONSIST TYPICALLY OF MICROCOMPUTER CONTROLLING SEVERAL PERIPHERALS, VIDEOPHONE/TAPE UNIT, KEYBOARD AND VISUAL DISPLAY UNIT AND FACSIMILE TRANSMITTER/PHOTOCOPIER/PRINTER. THE TECHNOLOGY IS ALREADY AVAILABLE FOR THE INDIVIDUAL PARTS, BUT WHAT IS MISSING IS THE DESIGN OF OVERALL SYSTEMS. COMMUNICATING WORD PROCESSORS WILL PLAY A LARGE PART, AS WILL SOPHISTICATED TELEX.

493612 C80030168
NATIONAL ONLINE INFORMATION MEETING. COLLECTED ABSTRACTS
1980 (PAPERS IN SUMMARY FORM ONLY RECEIVED)
ROBINS, C.O. (Editors)
NATIONAL ONLINE INFORMATION MEETING. COLLECTED ABSTRACTS
1980 (PAPERS IN SUMMARY FORM ONLY RECEIVED) 1980
29-27 MARCH 1980 NEW YORK, USA
Publ: LEARNED INFORMATION LTD., MEDFORD, NO. USA
72 pp.
Treatment: GENERAL REVIEW
Document Type: DISSERTATION

THE FOLLOWING TOPICS WERE DEALT WITH: COSTS AND PRICING IN ONLINE SEARCHING; TELETEXT AND VIDEOTEXT SYSTEMS; EVALUATION OF ONLINE SEARCHING; TRAINING IN BIBLIOGRAPHIC SEARCHING; LIBRARY PROVISION OF ONLINE RETRIEVAL SERVICES; FULL-TEXT NEWS RETRIEVAL; USE OF MICROCOMPUTERS; EURONET COMMON COMMAND LANGUAGE; NONBIBLIOGRAPHIC DATABASES.

453579 B80045274, C80030135
TELESOFTWARE
SYST. INT. (GB) VOL. 8, NO. 6 43 JUNE 1980 Coden: SYIND8
Treatment: GENERAL REVIEW
Document Type: JOURNAL PAPER

DISCUSSES THE IDEA OF USING TELETEXT AND VIEWDATA SYSTEMS TO PROVIDE ACCESS TO SOFTWARE LIBRARIES CONTAINING BOTH APPLICATIONS PROGRAMS AND SYSTEMS SOFTWARE. THE ORIGINATOR OF THIS IDEA, W.J.G. OVERINGTON, HAS NAMED IT TELESOFTWARE.

446311 B80045755
TELETEXT THE PHILIPS WAY
PETERS, H.
TELEVISION (GB) VOL. 30, NO. 6 298-301 APRIL 1980 Coden: TVSCAC
Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
DESCRIBES SPECIAL PURPOSE ICs DEVELOPED BY MULLARD/PHILIPS FOR USE IN TELETEXT DECODER CIRCUITS.

440316 B80040993, C80027782
INTERFACING THE INDIVIDUAL TO INFORMATION SOURCES
SOMMER, P.
PRACTICAL COMPUTING, LONDON, ENGLAND
PRACT. COMPUT. (GB) VOL. 3, NO. 5 76-7, 79 MAY 1980 Coden: PRCDZ
Treatment: GENERAL REVIEW
Document Type: JOURNAL PAPER

DESCRIBES HOW TO INTERFACE A MICROCOMPUTER TO THE VIEWDATA AND TELETEXT SYSTEMS AND HOW THE SURE WAY TO ENHANCE VIEWDATA AND TELETEXT INFORMATION IS TO TREAT THEM AS DIRECT INPUTS TO LOCAL MICROS WHICH THEN INTERPRET THE RESULTS FOR THEIR USERS.

386563 B80025741
CONSUMER ELECTRONICS
MOKHOFF, N.
IEEE SPECTRUM (USA) VOL. 17, NO. 1 64-8 JAN. 1980
Codan: IEESAM

Treatment: GENERAL REVIEW
Document type: JOURNAL PAPER
BRIEFLY LOOKS AT INCREASING DESIGN-EFFORT INVESTED IN CONVERSION OF THE TELEVISION RECEIVER TO A HOME INFORMATION CENTER. THE IMPROVEMENTS BEING DESIGNED INTO THE TV SET RANGE FROM PROCESSOR-CONTROLLED TUNERS IN THE RECEIVER TO VIEWDATA AND TELETEXT DECODERS FOR UPCOMING DATA-BANK SERVICES. PERIPHERAL ENTERTAINMENT EQUIPMENT FOR THE TV RECEIVER HAS ALSO EXPANDED IN FUNCTION AND SOPHISTICATION WITH THE INCLUSION OF LONGER-PLAYING VIDEO TAPE RECORDERS AND PERSONAL COMPUTERS THAT INTERFACE TO THE RECEIVER.

378210 B80020804, C80015372
MICROCOMPUTER-CONTROLLED TUNING AND CONTROL SYSTEMS FOR TV
VAN DE KERKHOF, F.A.M.
ELECTRON. COMPONENTS AND APPL. (NETHERLANDS) VOL. 1, NO. 4
199-214 AUG. 1979 Codan: ECAPD6

Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER
(2 Refs)
THE DESCRIBED VIDEO TUNING SYSTEM (VTS) PROVIDES MICROCOMPUTER-BASED CONTROL OF THE TUNING AND ANALOGUE FUNCTIONS OF TELEVISION RECEIVERS. THE HEART OF THE SYSTEM IS A STABLE FREQUENCY-LOCKED DIGITAL TUNING LOOP. OTHER FACILITIES INCLUDE ON-SCREEN AND/OR OFF-SCREEN DISPLAY OF CHANNEL AND/OR PROGRAMME NUMBER, PRESET STATIONS, CHANNEL STEPPING, REMOTE CONTROL, TIMING/CLOCK FUNCTIONS, SETTING OF SOUND AND PICTURE LEVELS AND CONTROL OF VIDEOTEK CIRCUITS.

371228 B80020889
WHAT DO WE DO WITH THE SYSTEM? (TELETEXT)
MCINTYRE, C.
BROADCAST. SYST. AND OPER. (GB) VOL. 2, NO. 11 461-2
NOV. 1979 Codan: BSOPDU

Treatment: APPLIC; PRACTICAL APPLIC
Document type: JOURNAL PAPER
CONSIDERS POSSIBLE EXTENSIONS TO THE CEEFAX SERVICE INCLUDING QUIZZES AND COMPETITIONS. TELESOFTWARE IN WHICH COMPUTER PROGRAMS ARE BROADCAST TO HOME COMPUTER.

364577 B80015425, C80014123
TECS THE SYSTEM IF YOU WANT TO BE A PIONEER (TELETEXT SYSTEM)
COLLINS, M.
PRACT. COMPUT. (GB) VOL. 2, NO. 11 70-1 NOV. 1979

Codan: PRCD02
Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER
TECS IS A MICRO-PROCESSOR-BASED TELETEXT VIEWDATA RECORDER WITH POWERFUL LOCAL COMPUTING FACILITIES. THE TECS IS TWO SEPARATE SYSTEMS BASED ON A COMMON MICROPROCESSOR. TELETEXT/VIEWDATA RECEIVER AND A 6800 MICROCOMPUTER. THE SYSTEM IS HOUSED IN A LOW CABINET SIMILAR TO THAT USED BY THE SOL COMPUTER.

354458 B80015769
METHODS OF MEASUREMENT ON TELETEXT RECEIVERS AND DECODERS
ROGERS, B.J.
11T, STL. HARLOW, ENGLAND
PROC. INST. ELECTR. ENG. (GB) VOL. 126, NO. 12 1404-7
DEC. 1979 Codan: PIEEAH
Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER
(5 Refs)

THE OBJECT OF THE STANDARD IS TO STANDARDISE THE CONDITIONS AND METHODS OF MEASUREMENT TO BE USED FOR THE STUDY OF RECEIVERS AND DECODERS FOR TELETEXT BROADCASTING. LIMITING VALUES OF THE VARIOUS QUANTITIES ARE SPECIFIED BUT MAY NEED MODIFICATION WITH INCREASING EXPERIENCE GAINED FROM EQUIPMENT OPERATING IN THE FIELD. THE STANDARD CONSTITUTES A CATALOGUE OF SELECTED MEASUREMENTS FOR ASSESSING THE ESSENTIAL PROPERTIES OF EQUIPMENT OF A GIVEN TYPE. IT IS NOT LIMITING: IF NECESSARY ADDITIONAL MEASUREMENTS MAY BE CARRIED OUT. THE RECOMMENDED METHODS APPLY TO COMPLETE RECEIVERS OR TO DECODING EQUIPMENT. THEY ALSO APPLY TO THAT SUBUNIT OF A COMPLETE RECEIVER OR DECODER CONCERNED WITH THE ACQUISITION AND DECODING OF THE DATA SIGNAL IGNORING INTERFACE AND POWER SUPPLY CIRCUITS. IT SHOULD BE REALISED THAT THE MEASUREMENTS PROPOSED AND THE LIMITING VALUES QUOTED ARE SUBJECT TO MODIFICATION AS METHODS ARE REFINED AND WITH THE DEVELOPMENT OF DECODING TECHNIQUES.

354457 880015768, C80008348
TELETEXT AND VIEWDATA-A COMPREHENSIVE COMPONENT SOLUTION
BEAKHUST, D.J.; GANDER, M.C.
CENTRAL APPLICATIONS LABS., MULLARD LTD., MITCHAM JUNCTION,
ENGLAND

PROC. INST. ELECTR. ENG. (GB) VOL.126, NO.12 1374-96
DEC. 1979 Coden: PIEEAH
Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER

(8 Refs)
A SYSTEM EMPLOYING INFRA-RED SERIAL DATA TRANSMISSION, AND
WHICH INTERFACES DIRECTLY WITH THE TELETEXT DECODER, IS
REALISED IN TWO LOW-COST L.S.I. I.C.S. FOUR L.S.I. I.C.S
TOGETHER WITH APPROPRIATE PAGE MEMORY I.C.S COMPRISE THE
TELETEXT DECODER: THREE, IN M.O.S. TECHNOLOGY, CARRY OUT THE
DIGITAL FUNCTIONS OF DATA ACQUISITION, DISPLAY TIMING AND
CHARACTER VIDEO GENERATION: THE OTHER, A LINEAR BIPOLAR I.C.,
PROVIDES A VERY EFFICIENT DATA SLICER AND DATA CLOCK SYSTEM
WHICH IS VITAL TO GOOD OFF-AIR TELETEXT PERFORMANCE. THE
DECODER IS DESIGNED FOR EASY EXTENSION FOR VIEWDATA USE. A
VIEWDATA EXTENSION SYSTEM BASED UPON THE MP8048 MICROCOMPUTER
INCLUDES A DATA-RECORDING FACILITY. OPTIONAL FULL-KEYBOARD
OPERATION, AUTOMATIC DIALLING OF SEVERAL ALTERNATIVE NUMBERS
AND A COMPREHENSIVE SET OF ON-SCREEN LEGENDS TO AID THE
VIEWER. A MODEM UNIT, DESIGNED TO MEET THE BRITISH POST OFFICE
PERFORMANCE AND SAFETY REQUIREMENTS FOR INSTALLATION IN A T.V.
RECEIVER OR V.D.U. FORMS PART OF THE SYSTEM.

354184 880015423
TELETEXT AND VIEWDATA SYSTEMS AND THEIR POSSIBLE EXTENSION
TO THE USA
CROWTHER, G.O.; HOBBS, D.S.
MULLARD LTD., NEW MITCHAM, ENGLAND
PROC. INST. ELECTR. ENG. (GB) VOL.126, NO.12 1417-24
DEC. 1979 Coden: PIEEAH
Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER

(7 Refs)
THE UK TELETEXT AND VIEWDATA SYSTEMS ARE ANALYSED AS A BASIS
FOR DISCUSSION OF THEIR SUITABILITY FOR INCORPORATING IN THE
NORTH AMERICAN NTSC TELEVISION SYSTEM. METHODS FOR ADAPTING TO
THE DIFFERENT BANDWIDTH AND DISPLAY FORMAT REQUIREMENTS ARE
DESCRIBED WHICH INDICATE THE FEASIBILITY OF IMMEDIATE
IMPLEMENTATION IN THE USA. AN INTERIM TELETEXT TEST
TRANSMISSION SYSTEM TO ASSIST IN THE CHOICE OF A SUITABLE DATA
RATE AND GENERAL SYSTEM PARAMETERS IS OUTLINED. THE COST
IMPLICATIONS OF ADOPTING THE BASIC UK SYSTEMS, WHICH ARE
ALREADY WELL ESTABLISHED, ARE REVIEWED IN SOME DETAIL. THE
FLEXIBILITY OF THE PRESENT TELETEXT SYSTEM AND ITS POTENTIAL
FOR FUTURE EXTENSIONS IS DISCUSSED AND IT IS SHOWN THAT
INITIAL DECODER DESIGNS WILL NOT BE MADE OBSOLETE WHEN
THESE ARE IMPLEMENTED. IT IS CONCLUDED THAT, WITH A SUITABLE
CHOICE OF DATA RATE AND PAGE FORMAT, THE UK TELETEXT AND
VIEWDATA SYSTEMS FORM A SOUND BASIS FOR THE ESTABLISHMENT OF

THESE SERVICES ON THE NTSC SYSTEM IN USA.

354183 880015422, C80010078
TELESOFTWARE, ADDING INTELLIGENCE TO TELETEXT
HEIDER, J.; EASON, R.
SOUTH BANK TELEVISION CENTRE, INDEPENDENT TELEVISION,
LONDON, ENGLAND
PROC. INST. ELECTR. ENG. (GB) VOL.126, NO.12 1412-16
DEC. 1979 Coden: PIEEAH
Treatment: PRACTICAL APPLIC
Document type: JOURNAL PAPER

(4 Refs)
SEEKS TO SHOW HOW, BY USING A MICROPROCESSOR, TELETEXT MAY
BE EXTENDED TO PROVIDE MANY NEW AND USEFUL FACILITIES, WHILE
REMAINING COMPATIBLE WITH EXISTING TELETEXT TRANSMISSIONS. THE
DESIGN AND IMPLEMENTATION OF AN EXPERIMENTAL TELESOFTWARE
TERMINAL ARE DESCRIBED. AND A SUMMARY OF CURRENT THINKING IS
GIVEN, INDICATING THE PROBABLE FUTURE SOFTWARE AND HARDWARE
CONSTRAINTS OF THE SYSTEM AND ITS POTENTIAL APPLICATIONS.

340242 880011398
NEW TELETEXT SIGNAL PANEL
KITCHING, A.
TELEVISION (GB) VOL.29, NO.11 582-6 SEPT. 1979
Coden: TVSCAC
Treatment: APPLIC: PRACTICAL APPLIC
Document type: JOURNAL PAPER

IN THE ORIGINAL VERSION OF THE TELEVISION TELETEXT
DECODER, UNDER CERTAIN SIGNAL CONDITIONS AN UNUSUALLY HIGH
NUMBER OF ERRORS IS PRESENT ON THE DISPLAY. TO OVERCOME THIS
PROBLEM, A NEW SIGNAL PANEL WAS DESIGNED. THIS USES THE
ORIGINAL IF STRIP ALONG WITH A NEW ADAPTIVE DATA RECOVERY
SECTION WHICH IS ABLE TO COPE WITH QUITE LARGE VARIATIONS IN
SIGNAL STRENGTH AND NOISE LEVELS. IMPROVEMENTS WERE ALSO MADE
TO THE IF STRIP EARTHING ARRANGEMENTS, TO OVERCOME CERTAIN
PROBLEMS WITH THE ORIGINAL.

333571 880006555, C80006117
AN AUTOMATIC INSTRUMENT FOR THE MEASUREMENT OF TELETEXT
DECODING MARGIN

SPICER, C.R.; TIDEY, R.V.
DESIGNS DEPT., BRITISH BROADCASTING CORP., LONDON, ENGLAND
SPONSOR: INST. ELECTRONIC AND RADIO ENGRS.
INTERNATIONAL CONFERENCE ON TELEVISION MEASUREMENTS 277-85
1979

21-23 MAY 1979 LONDON, ENGLAND
Publ: INST. ELECTRONIC AND RADIO ENGRS., LONDON, ENGLAND
VI+285 PP. ISBN 0 903748 37 1

Treatment: APPLIC: PRACTICAL APPLIC
Document Type: REPORT SECTION
DESCRIBES AN AUTOMATIC METER CAPABLE OF MEASURING THE
DECODING MARGIN OF A TELETEXT SIGNAL. THE INSTRUMENT HAS BEEN
DEVELOPED TO MEET THE NEED OF BROADCASTERS FOR AN ACCURATE AND
OBJECTIVE METHOD OF MEASURING THE QUALITY OF TELETEXT DATA
STREAMS COMBINED WITH SIMPLICITY OF OPERATION.

321644 880006552

TELETEXT DECODER UPDATE. ADDING COLOUR AND OTHER OPTIONS TO
THE TELEVISION TELETEXT DECODER. I11

MONEY, S.A.
TELEVISION (GB) VOL.29, NO.10 538-41 AUG. 1979

Coden: TVSCAC

Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
FOR PT.11 SEE 1810.. VOL.29, NO.9 (1979). DESCRIBES
CONSTRUCTION OF THE OPTIONS BOARD, AND ADVISES ON HOW TO ADD
BOXED MODE PRESENTATION.

311498 880002002
TELETEXT DECODER UPDATE. I1

MONEY, S.A.
TELEVISION (GB) VOL.29, NO.9 479-81 JULY 1979 Coden:

TVSCAC

Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
FOR PT.11 SEE 1810.. VOL.29, NO.8, P.406-9 (1979). DESCRIBES
HOW COLOUR AND OTHER OPTIONS CAN BE ADDED TO A TELEVISION
TELETEXT DECODER.

311497 880002001
TELETEXT DECODER UPDATE. I

MONEY, S.A.
TELEVISION (GB) VOL.29, NO.8 406-9 JUNE 1979 Coden:

TVSCAC

Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
ADDING COLOUR AND OTHER OPTIONS TO THE TELEVISION TELETEXT

DECODER ARE DESCRIBED.

302505 879048931, C79034838
TELESOFTWARE, HOME COMPUTING VIA BROADCAST TELETEXT

HEGGER, J.
SOUTHBANK TV CENTER, INDEPENDENT TELEVISION, LONDON, ENGLAND
IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-25, NO.3
279-87 JULY 1979 Coden: ITCEDA

Treatment: APPLIC: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
(5 Refs)

BROADCAST TELETEXT IS ESTABLISHED AS AN EFFICIENT MEANS OF
DECODING AND DISPLAYING TEXTUAL DATA. HOWEVER, THE STANDARD
TELETEXT DECODER ALREADY CONTAINS MANY OF THE COMPONENTS
REQUIRED FOR A HOME COMPUTER: IT HAS A CHARACTER-GENERATOR FOR
VISUAL-DISPLAY, A PAGE-STORE, AND A VERY CONVENIENT NUMERIC
KEYPAD FOR DATA-ENTRY. WITH THE ADDITION OF A FEW OTHER
COMPONENTS, THE RESULT IS QUITE A POWERFUL DISCRETE COMPUTER
RIGHT INSIDE THE TV SET. BY UTILISING THE TELETEXT SYSTEM TO
BROADCAST PROGRAMS FOR SUCH A TERMINAL, A USER NEEDS ONLY TO
SELECT THE TELETEXT PAGES CONTAINING A DESIRED PROGRAM: ONCE
THIS HAS BEEN READ IN, IT MAY BE LOADED AND EXECUTED BY THE
TERMINAL MICROPROCESSOR WITHOUT THE NEED FOR EXPENSIVE STORAGE
PERIPHERALS. TELEPHONE LINES OR SPECIAL KNOWLEDGE BY THE USER.

301929 879048886, C79034213
A UNIVERSAL CONTROLLER FOR TEXT DISPLAY SYSTEMS

CLIFFORD, C.
NAT. SEMICONDUCTOR GMSH, FURSTENFELDBRUCK, GERMANY
IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-25, NO.3
423-9 JULY 1979 Coden: ITCEDA

Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
(2 Refs)

THE ACCEPTANCE OF INFORMATION SERVICES IS GOVERNED NOT ONLY
BY THE VARIETY OF SOURCE MATERIAL BUT ALSO BY THE COST OF
EQUIPMENT. IN THE CONSUMER AREA TELEVISIONS WILL BE FITTED
WITH TELETEXT TYPE DECODERS AND, PROBABLY A LESSER NUMBER,
WITH VIEWDATA TYPE EQUIPMENT. BUSINESS USE OF VIEWDATA TYPE
TERMINALS IS ALSO A MARKET ANTICIPATED TO GROW FAST. THIS
GROWTH REQUIRES A LOW COST SOLUTION. THE ONLY WAY TO KEEP
COSTS DOWN ARE THE USE OF LSI CIRCUITS, AND THE DESIGN OF SUCH
CIRCUITS CAN ONLY BE JUSTIFIED ON HIGH VOLUME. THIS IMPLIES
ONE TRANSMISSION STANDARD FOR ALL SERVICES OR A SET OF
CIRCUITS ADAPTABLE TO EACH STANDARD. THE COMMON ELEMENT IS THE
DISPLAY: IF THIS CAN BE STANDARDISED THEN THE DIFFERENCE IN
PROTOCOLS CAN BE ACCOMMODATED BY THE APPROPRIATE PROGRAMMING
OF A MICROPROCESSOR.

301926 B79048476, C79034210
TELETEXT/VIEWDATA LSI (DECODER DESIGN)

HARDEN, B. INSTRUMENT MICROELECTRONICS LTD., GLENROTHES,
SCOTLAND

IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-25, NO. 3
353-8 JULY 1979 Coden: ITCEDA

Treatment: PRACTICAL APPLIC

Document Type: JOURNAL PAPER

ALTHOUGH THE DATA TRANSMISSION IN THE TELETEXT AND VIEWDATA SYSTEMS IS QUITE DIFFERENT, THE BASIC CODING STRUCTURE HAS BEEN ARRANGED TO BE SIMILAR. IN ADDITION THE SYSTEMS HAVE DEVELOPED USING AN IDENTICAL DISPLAY FORMAT WITH THE SAME FEATURES IN ORDER THAT THE GREATEST COMMONALITY OF HARDWARE MAY BE OBTAINED, WITH OBVIOUS COST ADVANTAGES. IN THIS ARTICLE THE AUTHOR DESCRIBES A TELETEXT/VIEWDATA DECODER EMPLOYING LSI COMPONENTS, WHICH WILL GIVE A FURTHER SAVING OVER SIMILAR TTL SYSTEMS.

301924 B79048475, C79034208
TELETEXT AND VIEWDATA COSTS AS APPLIED TO THE US MARKET

CROWTHER, G.D.
MULLARD LTD., MITCHAM, ENGLAND

IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-25, NO. 3

339-44 JULY 1979 Coden: ITCEDA

Treatment: ECONOMIC ASPECTS

Document Type: JOURNAL PAPER

(6 Refs)
THE PRIME AIM OF THE TELETEXT AND VIEWDATA SYSTEMS IN THE UK WAS TO CREATE A SIGNIFICANT NEW MARKET IN THE HOME FOR INFORMATION SERVICES BASED AROUND THE DOMESTIC COLOUR TV SET. TO ACHIEVE A MAJOR PENETRATION OF THE MARKET, PARTICULAR ATTENTION WAS TAKEN IN FORMULATING THE SYSTEM SPECIFICATION TO ACHIEVE SIMPLICITY FOR USER OPERATION AND MINIMUM DECODER COSTS. AT THE SAME TIME, CONSIDERABLE DEGREES OF FREEDOM WERE RETAINED FOR FUTURE EVOLUTION WITHOUT MAKING EXISTING DECODERS OBSOLETE. THE AUTHOR RECOGNISES THAT IN THE FUTURE MORE SOPHISTICATED SYSTEMS WILL BE BOTH ECONOMIC AND DESIRABLE. HOWEVER, UNLESS A SIGNIFICANT MARKET PENETRATION IS MADE IN THE US NOW WITH THE PRESENT SIMPLER SYSTEMS AND EXPERIENCE GAINED FROM BOTH THE INFORMATION PROVIDERS AND USERS, IT WILL BE DIFFICULT TO ESTABLISH THE OPTIMUM DIRECTION OF THESE FUTURE SYSTEMS.

297585 B79048936
RECEPTION OF TELETEXT UNDER MULTIPATH CONDITIONS

GOYAL, S.K.; ARMFIELD, S.C.
GTE LABS, INC., WALTHAM, MA, USA

IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-25, NO. 3

378-92 JULY 1979 Coden: ITCEDA

Treatment: PRACTICAL APPLIC; EXPERIMENTAL

Document Type: JOURNAL PAPER

(10 Refs)

TELETEXT DATA IS TRANSMITTED ON A STANDARD TELEVISION SYSTEM DESIGNED FOR ANALOG VIDEO TRANSMISSION. SINCE THIS SYSTEM IS NOT IDEALLY SUITED FOR DATA TRANSMISSION, SPECIAL ATTENTION MUST BE GIVEN TO REDUCING THE ERROR RATE IN THE RECEIVED SIGNAL. CONDITIONS THAT CAUSE SIGNAL DEGRADATION IN TELEVISION SYSTEMS INCLUDE SYSTEM AMPLITUDE AND GROUP DELAY DISTORTIONS, NOISE AND MULTIPATH TRANSMISSION. THIS PAPER EXAMINES THE PROBLEMS OF DECODING TELETEXT DATA THAT HAVE BEEN SUBJECTED TO MULTIPATH DISTORTION, AND DEMONSTRATES HOW DEHOSTING TECHNIQUES CAN IMPROVE DATA RELIABILITY. A TRANSVERSAL FILTER HAS BEEN CONSIDERED FOR THIS PURPOSE IN WHICH STANDARD SIGNALS SUCH AS TRUNCATED SINX/X AND RAISED COSINE PULSES HAVE BEEN USED AS TRAINING WAVEFORMS. THE CORRESPONDING IMPROVEMENTS ON DISPLAYED VIDEO ARE ALSO DISCUSSED.

297584 B79048935
A FREQUENCY-DOMAIN INTERPRETATION OF ECHOES AND THEIR EFFECT ON TELETEXT DATA RECEPTION

NEAL, C.B.; GOYAL, S.K.

GTE SYLVANIA INC., BATAVIA, NY, USA

IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-25, NO. 3

362-77 JULY 1979 Coden: ITCEDA

Treatment: PRACTICAL APPLIC; EXPERIMENTAL

Document Type: JOURNAL PAPER

(14 Refs)
THE INTERPRETATION OF ECHOES IN TERMS OF RIPPLES IN THE AMPLITUDE AND GROUP DELAY OF A SYSTEM IS ANALYZED AND DISCUSSED. SIMPLE RELATIONSHIPS ARE GIVEN, VALID FOR MOST PRACTICAL PURPOSES FOR ECHO LEVELS UP TO AT LEAST 10-20 PERCENT. SOME GENERAL APPLICATIONS ARE CONSIDERED, INCLUDING DETERMINATION OF SAW FILTER TRIPLE TRANSIT FROM GROUP DELAY RIPPLE RATE AND AMPLITUDE. FOR THIS PAPER THE RELATIONSHIPS WERE USED TO REPRESENT ECHOES DUE TO MULTIPATH. A COMPUTER PROGRAM FOR TELEVISION SYSTEM ANALYSIS USED THESE ECHOES AS AN INPUT AND EYE DIAGRAMS WERE PLOTTED FOR DIFFERENT ECHO LEVELS AND TIMES, FOR BOTH IDEAL AND REAL SYSTEMS. COMPUTER SIMULATION OF A DATA DECODER, WHICH EXTENDS THE ANALYTICAL APPROACH TO INCLUDE DIRECT ASSESSMENT OF ERRORS AS A FUNCTION OF DECODING THRESHOLD, IS DESCRIBED.

297520 B79048651
TELEVISION RECEIVER DESIGN ASPECTS FOR EMPLOYING TELETEXT
LSI

SUZUKI, T.; OKADA, Y.; YONETA, H.; JONES, R.
CONSUMER TV DIV., SONY CORP., SHINAGAWA-KU, TOKYO, JAPAN
IEEE TRANS. CONSUM. ELECTRON. (USA) VOL. CE-25, NO. 3
400-5 JULY 1979 Coden: ITCEDA

Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
IN THE UNITED KINGDOM, TELETEXT BROADCASTING TO A UNIFIED
SPECIFICATION HAS ALREADY BEGUN SERVICE. SONY HAVE NOW
RELEASED ONTO THE UK MARKET A COMPACT COLOUR TELEVISION
RECEIVER WHICH INCLUDES A BUILT-IN TELETEXT DECODER WITHOUT
CHANGING THE APPEARANCE OF THE SET AT ALL. THIS PAPER
DESCRIBES THE TELETEXT RECEIVER DESIGN.

284216 B79043953
THE RANK TELETEXT RECEIVER

FISHER, B.
TELEVISION (GB) VOL. 29, NO. 7 352-6 MAY 1979 Coden:

TVSCAC
Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
EXAMINES THE LOGIC INTERFACE REQUIRED BETWEEN THE
CONVENTIONAL RECEIVER CIRCUITRY AND THE TELETEXT DECODER
SECTION IN THE C6333 SERIES MODELS. THE FIRST TELETEXT
RECEIVERS TO GO INTO PRODUCTION FOR SALE ON THE DOMESTIC
MARKET.

260038 B79035454, C79023501
TELETEXT REMOTE CONTROL. III

RUSSELL, R.T.
WIRELESS WORLD (GB) VOL. 85, NO. 1522 83-4 JUNE 1979

Coden: WIMWAA
Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
(1 Refs)
FOR PT. II SEE IBID., VOL. 85, NO. 1521, P. 83 (1979). THE
AUTHOR DESCRIBES THE CONSTRUCTION, INSTALLATION AND OPERATION
OF THE ULTRASONIC REMOTE CONTROL FOR THE WIRELESS WORLD
TELETEXT DECODER.

235891 B79028063, C79018921
TELETEXT REMOTE CONTROL. II

RUSSELL, R.T.
WIRELESS WORLD (GB) VOL. 85, NO. 1521 83-6 MAY 1979

Coden: WIMWAA
Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
FOR PT. I SEE IBID., VOL. 85, NO. 1520, P. 53 (1979). THE AUTHOR

DESCRIBES THE INTERFACING OF THE REMOTE CONTROL RECEIVER WITH
THE ORIGINAL DECODER, BRINGING THE DESIGN UP TO THE STANDARD
OF COMMERCIAL UNITS.

219176 B79023810, C79012191
TELETEXT REMOTE CONTROL

RUSSELL, R.T.
WIRELESS WORLD (GB) VOL. 85, NO. 1520 53-6 APRIL 1979

Coden: WIMWAA
Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
DESCRIBES A MODIFICATION TO THE WIRELESS WORLD TELETEXT
DECODER WHICH PROVIDES IT WITH REMOTE CONTROL. AN ULTRASONIC
LINK IS USED AND A PUSHBUTTON KEYBOARD WITH DISPLAY ARE
INSERTED.

204860 B79019221

TV TELETEXT DECODER, IMPROVED SIGNAL COMBINING CIRCUIT
KITCHING, A.

TELEVISION (GB) VOL. 29, NO. 3 125 JAN. 1979 Coden:

TVSCAC
Treatment: PRACTICAL APPLIC
Document Type: JOURNAL PAPER
THE CIRCUIT DESCRIBED MINIMISES THE PROBLEM OF INTERACTION
BETWEEN.

204521 B79018812

SOFT-DECISION DECODING OF THE TELETEXT CHARACTER CODE
GOODMAN, R.M.F.

DEPT. OF ELECTRONIC ENGNG., UNIV. OF HULL, HULL, ENGLAND
ELECTRON. LETT. (GB) VOL. 15, NO. 4 108-9 15 FEB. 1979

Coden: ELLEAK
Treatment: NEW DEVELOPMENTS: THEORETICAL; EXPERIMENTAL
Document Type: JOURNAL PAPER
(7 Refs)
PROPOSES A SOFT-DECISION DECODING ALGORITHM AS A MEANS OF
IMPROVING THE DISPLAYED-CHARACTER ERROR RATE OF TELETEXT
TRANSMISSIONS BY SIMPLE MODIFICATIONS TO THE DECODER ONLY. THE
EXPECTED IMPROVEMENT IS THEORETICALLY ASSESSED. PERFORMANCE
CURVES ARE GIVEN AND IMPLEMENTATION OF THE SCHEME IS DISCUSSED

176699 879009486

CHARACTER ROUNDING FOR THE WIRELESS WORLD TELETEXT DECODER.

II

HINTON, J.H.

WIRELESS WORLD (GB) VOL.85. NO.1517 81-2 JAN. 1979

Coden: WIWOAA

Treatment: PRACTICAL APPLIC

Document type: JOURNAL PAPER

FOR PT.I SEE IBID.. VOL.84. NO.1515. P.49-53 (1978).

DESCRIBES THE INSTALLATION OF THE 4TH BOARD AND FURTHER
IMPROVEMENTS FOR THE TELETEXT DECODER. THE TEST AND
DEMONSTRATION FACILITIES ARE DISCUSSED.