

# WAVELENGTH 13

MARIO CABRERA

**TRANSMISSION-EFFICIENT DESIGN AND MANAGEMENT OF WAVELENGTH-ROUTED OPTICAL NETWORKS** MAHER ALI, 2012-12-06 OPTICAL NETWORKS, EMPLOYING WAVELENGTH-DIVISION MULTIPLEXING (WDM) AND WAVELENGTH ROUTING, ARE BELIEVED TO BE THE ANSWER FOR THE EXPLOSION IN IP TRAFFIC AND THE EMERGENCE OF REAL-TIME MULTIMEDIA APPLICATIONS. THESE NETWORKS OFFER QUANTUM LEAPS IN TRANSMISSION CAPACITY AS WELL AS ELIMINATE THE ELECTRONIC BOTTLENECK IN EXISTING METROPOLITAN AND BACKBONE NETWORKS. DURING THE LAST DECADE, WE WITNESSED A TREMENDOUS GROWTH IN THE THEORETICAL AND EXPERIMENTAL STUDIES FOCUSING ON THE COST-EFFECTIVE DEPLOYMENT OF WAVELENGTH ROUTED NETWORKS. THE MAJORITY OF THESE STUDIES, HOWEVER, ASSUMED IDEAL BEHAVIOR OF OPTICAL DEVICES. IN THIS BOOK, WE ARGUE THAT FOR THE SUCCESSFUL DEPLOYMENT OF OPTICAL NETWORKS, DESIGN ALGORITHMS AND NETWORK PROTOCOLS MUST BE EXTENDED TO ACCOMMODATE THE NON-IDEAL BEHAVIOR OF OPTICAL DEVICES. THESE EXTENSIONS SHOULD NOT ONLY FOCUS ON MAINTAINING ACCEPTABLE SIGNAL QUALITY (E.G., 12 MAINTAINING BER ABOVE  $10^{-12}$ ), BUT SHOULD ALSO MOTIVATE THE DEVELOPMENT OF OPTIMIZATION ALGORITHMS AND SIGNALING PROTOCOLS WHICH TAKE TRANSMISSION IMPAIRMENTS INTO CONSIDERATION. IN ADDITION, THE DESIGN OF ENABLING TECHNOLOGIES, SUCH AS OPTICAL CROSS-CONNECTS, SHOULD BE TRANSMISSION-EFFICIENT. THIS BOOK IS A COMPREHENSIVE TREATMENT OF THE IMPACT OF TRANSMISSION IMPAIRMENTS ON THE DESIGN AND MANAGEMENT OF WAVELENGTH-ROUTED NETWORKS. WE START WITH TRANSPARENT NETWORKS, FOCUSING ON POWER IMPLICATIONS SUCH AS CROSS-CONNECT DESIGN, DEVICE ALLOCATION PROBLEMS, AND MANAGEMENT ISSUES. IN THIS ALL-OPTICAL MODEL, WE PROPOSE A DESIGN SPACE BASED ON REDUCTION IN OVERALL COST AND EASE OF NETWORK MANAGEMENT. THIS DESIGN CONCEPT, MOTIVATES VARIOUS SWITCH ARCHITECTURES AND DIFFERENT OPTIMIZATION PROBLEMS.

**COARSE WAVELENGTH DIVISION MULTIPLEXING** MARCUS NEBELING, HANS JOERG THIELE, 2018-10-08 EXPLAINING WHAT CWDM IS, HOW IT IS ACHIEVED, AND WHY IT SHOULD BE DEPLOYED, COARSE WAVELENGTH DIVISION MULTIPLEXING: TECHNOLOGIES AND APPLICATIONS MERGES COVERAGE OF ISOLATED ASPECTS OF COARSE WAVELENGTH DIVISION MULTIPLEXING (CWDM) TRADITIONALLY FOUND AS DEVICE-RELATED OR SPECIFIC SYSTEM TOPICS. EMPHASIZING COST SAVINGS AND PERFORMANCE ENHANCEMENT, THE BOOK INTEGRATES INFORMATION ON COMPONENT ISSUES, SYSTEM ARCHITECTURES, CONCEPTS FOR EXTENSIONS AND UPGRADES, AS WELL AS PRACTICAL APPLICATIONS INTO A COMPREHENSIVE, SINGLE-VOLUME RESOURCE. BEGINNING WITH A SUMMARY OF THE ITU-T STANDARDS DEFINING CWDM, THE BOOK ADDRESSES THE THREE ESSENTIAL COMPONENT CLASSES, OPTICAL FIBERS, TRANSCEIVERS, AND WDM FILTERS, WHICH COMBINE TO FORM THE

BASIS FOR THE CWDM TRANSMISSION LINK. THE FOLLOWING CHAPTERS INCLUDE COVERAGE OF DIFFERENT ARCHITECTURES SUCH AS HUBBED RINGS AND MESHED NETWORKS, AND UPGRADE PATHS TO OVERCOME LIMITATIONS OF CURRENT CWDM SYSTEMS. THE BOOK OUTLINES THE FEASIBILITY OF OPTICALLY AMPLIFIED CWDM SYSTEMS, INVESTIGATES THE CHALLENGES PRESENT WITH HIGH-SPEED CWDM AND BIDIRECTIONAL TRANSMISSION, AND FINALLY ELUCIDATES THE IMPORTANCE OF CWDM FOR A WIDE RANGE OF APPLICATIONS. EACH CHAPTER PROVIDES SUFFICIENT INFORMATION TO BE USED INDEPENDENTLY AND CONTAINS REFERENCES TO RELEVANT PAPERS AND ARTICLES FOR FURTHER STUDY. THE LAST SECTIONS OF THE BOOK FOCUS ON APPLICATIONS AND CASE STUDIES WHERE CWDM PLAYS AN EVER-INCREASING ROLE. THEY INCLUDE EXTENSIVE STUDIES ON NETWORKING, REACH EXTENSION BY AMPLIFICATION, AND THE LATEST CONCEPTS OF TRANSMISSION CAPACITY UPGRADES USING INCREASED BIT-RATES OR NEW CHANNEL PLANS. FILLED WITH PRACTICAL INFORMATION, THE BOOK PROVIDES A CLEAR UNDERSTANDING OF RECENT DEVELOPMENTS IN THE DYNAMIC FIELD OF CWDM.

□ *LONG WAVELENGTH INFRARED DETECTORS* MANIJEH RAZEGHI, 2020-03-09  
THIS TIMELY WORK PRESENTS A COMPREHENSIVE OVERVIEW OF THE DEVELOPMENT OF NEW GENERATIONS OF INFRARED DETECTORS BASED ON ARTIFICIALLY SYNTHESIZED QUANTUM STRUCTURES. THE GROWTH OF QUANTUM WELLS AND SUPERLATTICES IS WELL DOCUMENTED IN THIS VOLUME, AS ARE THE PRINCIPAL NEW SUPERLATTICE TECHNOLOGIES FOR LONG WAVELENGTH INFRARED DETECTION. FEATURING INSIGHTFUL CONTRIBUTIONS FROM RESEARCHERS WORKING AT THE CUTTING EDGE OF THIS EXCITING FIELD, THIS VOLUME IS SURE TO BECOME AN ESSENTIAL REFERENCE FOR ADVANCED GRADUATE STUDENTS AND RESEARCHERS ALIKE.

□ *DEVELOPMENT OF 15 MICRON CUTOFF WAVELENGTH HgCdTe DETECTOR ARRAYS FOR ASTRONOMY* MARIO CABRERA, 2020-09-17  
THIS THESIS DESCRIBES ADVANCES IN THE UNDERSTANDING OF HgCdTe DETECTORS. WHILE LONG WAVE (15  $\mu\text{m}$ ) INFRARED DETECTORS HgCdTe DETECTORS HAVE BEEN DEVELOPED FOR MILITARY USE UNDER HIGH BACKGROUND IRRADIANCE, THESE ARRAYS HAD NOT PREVIOUSLY BEEN DEVELOPED FOR ASTRONOMICAL USE WHERE THE BACKGROUND IRRADIANCE IS A BILLION TIMES SMALLER. THE MAIN PITFALL IN DEVELOPING SUCH ARRAYS FOR ASTRONOMY IS THE PIXEL DARK CURRENT WHICH PLAGUES LONG WAVE HgCdTe. THE AUTHOR DETAILS WORK ON THE SUCCESS OF SHORTER WAVELENGTH DEVELOPMENT AT TELEDYNE IMAGING SENSORS, CAREFULLY MODELING THE DARK CURRENT-REVERSE BIAS VOLTAGE CURVES OF THEIR 10  $\mu\text{m}$  DEVICES AT A TEMPERATURE OF 30K, AS WELL AS THE DARK CURRENT-TEMPERATURE CURVES AT SEVERAL REVERSE BIASES, INCLUDING 250 mV. BY PROJECTING FIRST TO 13 AND THEN 15  $\mu\text{m}$  HgCdTe GROWTH, VALUES OF FUNDAMENTAL PROPERTIES OF THE MATERIAL THAT WOULD MINIMIZE TUNNELING DARK CURRENTS WERE DETERMINED THROUGH CAREFUL MODELING OF THE DARK CURRENT-REVERSE BIAS VOLTAGE

CURVES, AS WELL AS THE DARK CURRENT-TEMPERATURE CURVES. THIS ANALYSIS WAS BORNE OUT IN THE 13 MM PARTS PRODUCED BY TELEDYNE, AND THEN FURTHER HONED TO PRODUCE THE NECESSARY PARAMETERS FOR THE 15 MM GROWTH. THE RESULTING 13 MM ARRAYS ARE BEING CONSIDERED BY A NUMBER OF GROUND-BASED ASTRONOMY RESEARCH GROUPS.

📖 **REPORT INSTITUTE OF RADIO ENGINEERS. STANDARDS COMMITTEE, 1926**

📖 **RADIOMETRIC TEMPERATURE MEASUREMENTS**, 2009-10-01 THIS BOOK DESCRIBES THE THEORY OF RADIATION THERMOMETRY, BOTH AT A PRIMARY LEVEL AND FOR A VARIETY OF APPLICATIONS, SUCH AS IN THE MATERIALS PROCESSING INDUSTRIES AND REMOTE SENSING. THIS BOOK IS WRITTEN FOR THOSE WHO WILL APPLY RADIATION THERMOMETRY IN INDUSTRIAL PRACTICE; USE RADIATION THERMOMETERS FOR SCIENTIFIC RESEARCH; THE RADIATION THERMOMETRY SPECIALIST IN A NATIONAL MEASUREMENT INSTITUTE; DEVELOPERS OF RADIATION THERMOMETERS WHO ARE WORKING TO INNOVATE PRODUCTS FOR INSTRUMENT MANUFACTURERS, AND DEVELOPERS OF NON-CONTACT THERMOMETRY METHODS TO ADDRESS CHALLENGING THERMOMETRY PROBLEMS. THE AUTHORS OF EACH CHAPTER WERE CHOSEN FROM A GROUP OF INTERNATIONAL SCIENTISTS WHO ARE EXPERTS IN THE FIELD AND SPECIALISTS ON THE SUBJECT MATTER COVERED IN THE CHAPTER. A LARGE NUMBER OF REFERENCES ARE INCLUDED AT THE END OF EACH CHAPTER AS A RESOURCE FOR THOSE SEEKING A DEEPER OR MORE DETAILED UNDERSTANDING. THIS BOOK IS MORE THAN A PRACTICE GUIDE, READERS WILL GAIN IN-DEPTH KNOWLEDGE IN: (1) THE PROPER SELECTION OF THE TYPE OF THERMOMETER; (2) THE BEST PRACTICE IN USING THE RADIATION THERMOMETERS; (3) AWARENESS OF THE ERROR SOURCES AND SUBSEQUENT APPROPRIATE PROCEDURE TO REDUCE THE OVERALL UNCERTAINTY; AND (4) UNDERSTANDING OF THE CALIBRATION CHAIN AND ITS CURRENT LIMITATIONS. COVERS ALL FUNDAMENTAL ASPECTS OF THE RADIOMETRIC MEASUREMENTS DISCUSSES PRACTICAL APPLICATIONS WITH DETAILS ON THE INSTRUMENTATION, CALIBRATION, AND ERROR SOURCES AUTHORS ARE FROM LEADING NATIONAL LABS WORKING IN R&D OF TEMPERATURE MEASUREMENTS

📖 **PROCEEDINGS OF THE SIXTH INTERNATIONAL SYMPOSIUM ON LONG WAVELENGTH INFRARED DETECTORS AND ARRAYS: PHYSICS AND APPLICATIONS** SHENG S. LI, 1999

📖 **PHYSICS IN THE MODERN WORLD** JERRY MARION, 2012-12-02 PHYSICS IN THE MODERN WORLD FOCUSES ON THE APPLICATIONS OF PHYSICS IN A WORLD DOMINATED BY TECHNOLOGY AND THE MANY WAYS THAT PHYSICAL IDEAS ARE MANIFEST IN EVERYDAY SITUATIONS, FROM THE OPERATION OF ROCKETS AND CAMERAS TO SPACE TRAVEL AND X-RAY PHOTOGRAPHY. AUTOMOBILE AIR BAGS, DRAG RACING, ARTIFICIAL GRAVITY, AND POLLUTION CONTROL, AS WELL AS APPLIANCE ECONOMICS, MUSICAL INSTRUMENTS, RADAR, AND OTHER MODERN PHENOMENA AND DEVICES ARE DISCUSSED TO EMPHASIZE THE WAY THAT PHYSICAL

PRINCIPLES ARE APPLIED IN TODAY'S WORLD. COMPRISED OF 21 CHAPTERS, THIS BOOK BEGINS WITH AN INTRODUCTION TO PHYSICAL IDEAS, WITH PARTICULAR REFERENCE TO SOME OF THE RULES BY WHICH NATURE GOVERNS THE MICROSCOPIC (OR SMALL-SCALE) WORLD OF ATOMS AND THE MACROSCOPIC (OR LARGE-SCALE) REALM OF EVERYDAY OBJECTS, THE EARTH, PLANETS, AND STARS. THE DISCUSSION THEN TURNS TO THE MICROWORLD OF PHYSICS AND ITS FUNDAMENTAL BUILDING BLOCKS - ELECTRONS, PROTONS, AND NEUTRONS - AND HOW THEY COMBINE TO FORM ATOMS, MOLECULES, AND NUCLEI. SUBSEQUENT CHAPTERS EXPLORE MOTION, HEAT, WAVE, AND ENERGY, AS WELL AS THE BASIC FORCES IN NATURE. ELECTRICITY, RELATIVITY, LIQUIDS AND GASES, AND RADIATION ARE ALSO DISCUSSED. THIS MONOGRAPH IS INTENDED FOR PHYSICS STUDENTS WHO ARE SPECIALIZING IN OTHER DISCIPLINES.

SHORT WAVELENGTH LABORATORY SOURCES ALAN MICHETTE, DAVIDE BLEINER, JOHN COSTELLO, GERRY O'SULLIVAN, FRANCOISE DE DORTAN, LADISLAV PINA, 2014-12-15 OUR ABILITY TO MANIPULATE SHORT WAVELENGTH RADIATION (0.01-100NM, EQUIVALENT TO 120keV-12eV) HAS INCREASED SIGNIFICANTLY OVER THE LAST THREE DECADES. THIS HAS LEAD TO MAJOR ADVANCES IN APPLICATIONS IN A WIDE RANGE OF DISCIPLINES SUCH AS: THE LIFE AND MEDICAL SCIENCES, INCLUDING CANCER-RELATED STUDIES; ENVIRONMENTAL SCIENCE, INCLUDING STUDIES OF POLLUTION AND ITS EFFECTS; ARCHAEOLOGY AND OTHER CULTURAL HERITAGE DISCIPLINES; AND MATERIALS SCIENCE. ALTHOUGH EXPANSION IN APPLICATION AREAS IS DUE LARGELY TO MODERN SYNCHROTRON SOURCES, MANY APPLICATIONS WILL NOT BECOME WIDESPREAD, AND THEREFORE ROUTINELY AVAILABLE AS ANALYTICAL TOOLS, IF THEY ARE CONFINED TO SYNCHROTRONS. THIS IS BECAUSE SYNCHROTRONS REQUIRE ENORMOUS CAPITAL AND INFRASTRUCTURE COSTS AND ARE OFTEN, OF NECESSITY, NATIONAL OR INTERNATIONAL FACILITIES. THIS SERIOUSLY LIMITS THEIR SCOPE FOR APPLICATIONS IN RESEARCH AND ANALYSIS, IN BOTH ACADEMIA AND INDUSTRY. HOW MANY UNIVERSITIES, RESEARCH INSTITUTES OR EVEN INDUSTRIAL LABORATORIES WOULD HAVE ELECTRON MICROSCOPES IF ELECTRON SOURCES COST  $\approx$  100M OR MORE HENCE THE NEED TO DEVELOP BRIGHT BUT SMALL AND (RELATIVELY) CHEAP X-RAY SOURCES, NOT TO REPLACE SYNCHROTRONS BUT TO COMPLEMENT THEM. WRITTEN BY A DISTINGUISHED TEAM OF INTERNATIONAL AUTHORS THIS EXEMPLARY NEW HANDBOOK IS BASED ON THE COST ACTION MP0601: SHORT WAVELENGTH LABORATORY SOURCES. THE CONTENTS ARE DIVIDED INTO FIVE MAIN SECTIONS. THE INTRODUCTORY SECTION PROVIDES A COMPREHENSIVE INTRODUCTION TO THE FUNDAMENTALS OF RADIATION, GENERATION MECHANISMS AND SHORT WAVELENGTH LABORATORY SOURCES. THE MIDDLE SECTIONS FOCUS ON MODELLING AND SIMULATION, SOURCE DEVELOPMENT: IMPROVEMENT AND CHARACTERISATION AND INTEGRATED SYSTEMS: SOURCES, OPTICS AND DETECTORS. THE FINAL SECTION

LOOKS AT RECENT APPLICATIONS.

❓ LASER INDUCED DAMAGE IN OPTICAL MATERIALS, 1986

❓ SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS, 1987

❓ ROUTING AND WAVELENGTH ASSIGNMENT FOR WDM-BASED OPTICAL

NETWORKS BIJOY CHAND CHATTERJEE, NITYANANDA SARMA, PARTHA PRATIM

SAHU, Eiji Oki, 2016-10-01 THIS BOOK PRESENTS AN IN-DEPTH TREATMENT OF

ROUTING AND WAVELENGTH ASSIGNMENT FOR OPTICAL NETWORKS, AND FOCUSES SPECIFICALLY ON QUALITY-OF-SERVICE AND FAULT RESILIENCY ISSUES. IT REPORTS

ON NOVEL APPROACHES FOR THE DEVELOPMENT OF ROUTING AND WAVELENGTH ASSIGNMENT SCHEMES FOR FAULT-RESILIENT OPTICAL NETWORKS, WHICH IMPROVE

THEIR PERFORMANCE IN TERMS OF SIGNAL QUALITY, CALL BLOCKING, CONGESTION LEVEL AND RELIABILITY, WITHOUT A SUBSTANTIAL INCREASE IN NETWORK SETUP

COST. THE BOOK FIRST PRESENTS A SOLUTION FOR REDUCING THE EFFECT OF THE WAVELENGTH CONTINUITY CONSTRAINT DURING THE ROUTING AND WAVELENGTH

ASSIGNMENT PHASE. FURTHER, IT REPORTS ON AN APPROACH ALLOWING THE INCORPORATION OF A TRAFFIC GROOMING MECHANISM WITH ROUTING AND

WAVELENGTH ASSIGNMENT TO ENHANCE THE EFFECTIVE CHANNEL UTILIZATION OF A GIVEN CAPACITY OPTICAL NETWORK USING FEWER ELECTRICAL-OPTICAL-

ELECTRICAL CONVERSIONS. AS A THIRD STEP, IT ADDRESSES A QUALITY OF SERVICE PROVISION SCHEME FOR WAVELENGTH-DIVISION MULTIPLEXING (WDM)-BASED

OPTICAL NETWORKS. LASTLY, THE BOOK DESCRIBES THE INCLUSION OF A TREE-BASED FAULT RESILIENCE SCHEME IN PRIORITY-BASED DISPERSION-REDUCED

WAVELENGTH ASSIGNMENT SCHEMES FOR THE PURPOSE OF IMPROVING NETWORK RELIABILITY, WHILE MAINTAINING A BETTER UTILIZATION OF NETWORK RESOURCES.

MAINLY INTENDED FOR GRADUATE STUDENTS AND RESEARCHERS, THE BOOK PROVIDES THEM WITH EXTENSIVE INFORMATION ON BOTH FUNDAMENTAL AND ADVANCED

TECHNOLOGIES FOR ROUTING AND WAVELENGTH ASSIGNMENT IN OPTICAL NETWORKS. THE TOPICS COVERED WILL ALSO BE OF INTEREST TO NETWORK

PLANNERS AND DESIGNERS.

❓ RARE-EARTH-DOPED FIBER LASERS AND AMPLIFIERS, REVISED AND EXPANDED

MICHEL J.F. DIGONNET, 2001-05-31 RARE-EARTH-DOPED FIBER LASERS AND

AMPLIFIERS, SECOND EDITION DISCUSSES THE ESSENTIAL PRINCIPLES, OPERATING CHARACTERISTICS, AND CURRENT TECHNOLOGY OF THE MAIN FIBER LASER AND

AMPLIFIER DEVICES BASED ON RARE-EARTH-DOPED SILICA AND FLUOROZIRCONATE FIBERS. COVERING ALL ASPECTS OF THIS REVOLUTIONARY TECHNOLOGY, THE BOOK

REVIEW'S FIBER FABRICATION METHODS AND THE BASIC SPECTROSCOPIC PROPERTIES OF RARE-EARTH IONS IN GLASSES, CONCENTRATES ON THE MOST IMPORTANT FIBER

LASER SOURCES, EXAMINES SEVERAL ADVANCES IN FIBER AMPLIFIERS, AND ANALYZES NEW FINDINGS AND IMPROVEMENTS IN SINGLE-FREQUENCY OPERATION, FREQUENCY

TENABILITY, BROADBAND FIBER SOURCES, AND BLUE-GREEN AND FAR-INFRARED FIBER

LASERS.

🔍 *DEKKER ENCYCLOPEDIA OF NANOSCIENCE AND NANOTECHNOLOGY* JAMES A. SCHWARZ, CRISTIAN I. CONTESCU, KAROL PUTYERA, 2004

🔍 *Z-DNA* KYEONG KYU KIM, VINOD KUMAR SUBRAMANI, 2023-03-09 THIS DETAILED VOLUME COMPILES KEY METHODS AND TECHNIQUES USED TO ESTABLISH SOME OF THE STRUCTURAL AND FUNCTIONAL ASPECTS OF Z-FORM NUCLEIC ACIDS. BEGINNING WITH CHAPTERS ON CHARACTERIZING Z-DNA, THE BOOK CONTINUES BY EXPLORING STRUCTURE DETERMINATION TECHNIQUES, GENE- AND GENOME-TARGETING METHODS AND GENOME-WIDE APPROACHES, Z-RNA STUDY, AND MUCH MORE. WRITTEN FOR THE HIGHLY SUCCESSFUL METHODS IN MOLECULAR BIOLOGY SERIES, CHAPTERS INCLUDE INTRODUCTIONS TO THEIR RESPECTIVE TOPICS, LISTS OF THE NECESSARY MATERIALS AND REAGENTS, STEP-BY-STEP AND READILY REPRODUCIBLE LABORATORY PROTOCOLS, AND TIPS ON TROUBLESHOOTING AND AVOIDING KNOWN PITFALLS. AUTHORITATIVE AND PRACTICAL, Z-DNA: METHODS AND PROTOCOLS SERVES AS AN IDEAL GUIDE FOR STUDENTS AND RESEARCHERS CURIOUS ABOUT THIS UNIQUE Z NUCLEIC ACID AS AN AREA OF INVESTIGATION, AIMING TO HELP THE FIELD GROW, FLOURISH, AND UNRAVEL THE HIDDEN AND NOVEL ROLES OF Z. CHAPTER 1 IS AVAILABLE OPEN ACCESS UNDER A CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL LICENSE VIA [LINK.SPRINGER.COM](https://link.springer.com). THIS IS AN OPEN ACCESS BOOK.

🔍 *BIDYMIUM GLASS FILTERS FOR CALIBRATING THE WAVELENGTH SCALE OF SPECTROPHOTOMETERS--SRM 2009, 2010, 2013, AND 2014* WILLIAM H. VENABLE, KENNETH L. ECKERLE, 1979

🔍 *X-RAY WAVELENGTH CONVERSION TABLES AND GRAPHS FOR QUALITATIVE ELECTRON PROBE MICROANALYSIS* KURT F. J. HEINRICH, MARY ANN M. GILES, 1967

🔍 *THE YEAR-BOOK OF WIRELESS TELEGRAPHY & TELEPHONY*, 1923 INCLUDES LITERATURE.

🔍 *MICHAEL SNOW* JAMES KING, 2019-10-12 AN ALL-ENCOMPASSING VIEW OF THE LIFE AND WORK OF ONE OF CANADA'S GREATEST LIVING ARTISTS MICHAEL SNOW IS RIGHTLY RECOGNIZED AS ONE OF THE GREATEST CANADIAN ARTISTS. IN A PRODUCTIVE, LENGTHY CAREER, HE HAS, IN A WIDE VARIETY OF GENRES AND MEDIA, ASKED (AND OFTEN ANSWERED) SOME OF THE MOST VEXING AND IMPORTANT QUESTIONS IN THE HISTORY OF ART. DURING HIS LIFETIME, THE NOTION OF WHAT CONSTITUTES A WORK OF ART HAS UNDERGONE MANY CHANGES, AND HIS WORK HAS CONSISTENTLY BEEN AT THE FOREFRONT OF THAT DISCUSSION. MICHAEL SNOW: LIVES AND WORKS EXAMINES ALL ASPECTS OF THE ARTIST'S WORK AND PROVIDES A GUIDE TO UNDERSTANDING ITS SUBTLETIES AND COMPLEXITIES. THE BOOK ALSO CHARTS THE LIFE OF SNOW: HIS EARLY YEARS AS A STUDENT AND ARTIST IN TORONTO, HIS STAY IN NEW YORK CITY, HIS TURBULENT MARRIAGE TO JOYCE WIELAND, HIS REPUTATION AS A LADY'S MAN, AND HIS ADVENTURES IN MOVIE MAKING AND IMPROVISED MUSIC. IN MANY WAYS, SNOW IS THE VISUAL ARTIST AS

INTELLECTUAL: HIS IMAGES ARE VIBRANT AND COMPELLING, BUT SO ARE THE IDEAS BEHIND THEM. ULTIMATELY, HIS WORK IS ABOUT PERCEPTION. WHAT DO WE REALLY SEE WHEN WE LOOK AT A WORK OF ART? WHAT IS THE ACT OF LOOKING ALL ABOUT? WHAT EXACTLY IS A WORK OF ART? MICHAEL SNOW: LIVES AND WORKS IS A PERSONAL AND INTIMATE PORTRAIT OF AN ARTIST WHO HAS HELPED SHAPED THE FACE OF CANADIAN ART IN OUR TIME.

### ❏ *OPTICAL FREQUENCY-MODULATED CONTINUOUS-WAVE (FMCW)*

*INTERFEROMETRY* JESSE ZHENG, 2005-08-25 OPTICAL INTERFERENCE PLAYS A PROMINENT ROLE IN SCIENTIFIC DISCOVERY AND MODERN TECHNOLOGY.

HISTORICALLY, OPTICAL INTERFERENCE WAS INSTRUMENTAL IN ESTABLISHING THE WAVE NATURE OF LIGHT. NOWADAYS, OPTICAL INTERFERENCE CONTINUES TO BE OF GREAT IMPORTANCE IN AREAS SUCH AS SPECTROSCOPY AND METROLOGY. THUS FAR, THE PHYSICAL OPTICS LITERATURE HAS DISCUSSED THE INTERFERENCE OF OPTICAL WAVES WITH THE SAME SINGLE FREQUENCY (I.E., HOMODYNE INTERFERENCE) AND THE INTERFERENCE OF OPTICAL WAVES WITH TWO DIFFERENT FREQUENCIES (I.E., HETERODYNE INTERFERENCE), BUT IT HARDLY EVER DEALS WITH THE INTERFERENCE OF OPTICAL WAVES WHOSE FREQUENCIES ARE CONTINUOUSLY MODULATED (I.E., FREQUENCY-MODULATED CONTINUOUS-WAVE INTERFERENCE). FREQUENCY-MODULATED CONTINUOUS-WAVE (FMCW) INTERFERENCE, WHICH WAS ORIGINALLY INVESTIGATED IN RADAR IN THE 1950s, HAS BEEN RECENTLY INTRODUCED IN OPTICS. THE STUDY OF OPTICAL FMCW INTERFERENCE NOT ONLY UPDATES OUR KNOWLEDGE ABOUT THE NATURE OF LIGHT BUT ALSO CREATES A NEW ADVANCED TECHNOLOGY FOR PRECISION MEASUREMENTS. THIS BOOK INTRODUCES THE PRINCIPLES, APPLICATIONS, AND SIGNAL PROCESSING OF OPTICAL FMCW INTERFERENCE. THE LAYOUT OF THIS BOOK IS STRAIGHTFORWARD. CHAPTER 1 GIVES A SHORT INTRODUCTION TO OPTICAL FMCW INTERFEROMETRY BY CONSIDERING THE HISTORICAL DEVELOPMENT, GENERAL CONCEPTS, AND MAJOR ADVANTAGES PROVIDED BY THIS NEW TECHNOLOGY. CHAPTER 2 FOCUSES ON THE PRINCIPLES OF OPTICAL FMCW INTERFERENCE. THREE DIFFERENT VERSIONS OF OPTICAL FMCW INTERFERENCE—SAWTOOTH-WAVE OPTICAL FMCW INTERFERENCE, TRIANGULAR-WAVE OPTICAL FMCW INTERFERENCE, AND SINUSOIDAL-WAVE OPTICAL FMCW INTERFERENCE—ARE DISCUSSED IN DETAIL. MOREOVER, MULTIPLE-BEAM OPTICAL FMCW INTERFERENCE AND MULTIWAVELENGTH OPTICAL FMCW INTERFERENCE ARE ALSO DISCUSSED BY THIS CHAPTER.

THE TOP BOOKS OF THE YEAR WAVELENGTH 13 THE YEAR 2023 HAS WITNESSED A REMARKABLE SURGE IN LITERARY BRILLIANCE, WITH NUMEROUS CAPTIVATING NOVELS CAPTIVATING THE HEARTS OF READERS WORLDWIDE. LETS DELVE INTO THE REALM OF POPULAR BOOKS, EXPLORING THE CAPTIVATING



NARRATIVES THAT HAVE CAPTIVATED AUDIENCES THIS YEAR. **Wavelength 13 :** COLLEEN HOOVER'S "It Ends with Us" THIS HEARTFELT TALE OF LOVE, LOSS, AND RESILIENCE HAS CAPTIVATED READERS WITH ITS RAW AND EMOTIONAL EXPLORATION OF DOMESTIC ABUSE. HOOVER EXPERTLY WEAVES A STORY OF HOPE AND HEALING, REMINDING US THAT EVEN IN THE DARKEST OF TIMES, THE HUMAN SPIRIT CAN PREVAIL. **UNCOVER THE BEST :** TAYLOR JENKINS REIDS "THE SEVEN HUSBANDS OF EVELYN HUGO" THIS INTRIGUING HISTORICAL FICTION NOVEL UNRAVELS THE LIFE OF EVELYN HUGO, A HOLLYWOOD ICON WHO DEFIES EXPECTATIONS AND SOCIETAL NORMS TO PURSUE HER DREAMS. REIDS CAPTIVATING STORYTELLING AND COMPELLING CHARACTERS TRANSPORT READERS TO A BYGONE ERA, IMMERSING THEM IN A WORLD OF GLAMOUR, AMBITION, AND SELF-DISCOVERY. **Wavelength 13 :** DELIA OWENS "WHERE THE CRAWDADS SING" THIS EVOCATIVE COMING-OF-AGE STORY FOLLOWS KYA CLARK, A YOUNG WOMAN WHO GROWS UP ALONE IN THE MARSHES OF NORTH CAROLINA. OWENS CRAFTS A TALE OF RESILIENCE, SURVIVAL, AND THE TRANSFORMATIVE POWER OF NATURE, ENTRANCING READERS WITH ITS EVOCATIVE PROSE AND MESMERIZING SETTING. THESE POPULAR NOVELS REPRESENT JUST A FRACTION OF THE LITERARY TREASURES THAT HAVE EMERGED IN 2023. WHETHER YOU SEEK TALES OF ROMANCE, ADVENTURE, OR PERSONAL GROWTH, THE WORLD OF LITERATURE OFFERS AN ABUNDANCE OF COMPELLING STORIES WAITING TO BE DISCOVERED. THE NOVEL BEGINS WITH RICHARD PAPEN, A BRIGHT BUT TROUBLED YOUNG MAN, ARRIVING AT HAMPDEN COLLEGE. RICHARD IS IMMEDIATELY DRAWN TO THE GROUP OF STUDENTS WHO CALL THEMSELVES THE CLASSICS CLUB. THE CLUB IS LED BY HENRY WINTER, A BRILLIANT AND CHARISMATIC YOUNG MAN. HENRY IS OBSESSED WITH GREEK MYTHOLOGY AND PHILOSOPHY, AND HE QUICKLY DRAWS RICHARD INTO HIS WORLD. THE OTHER MEMBERS OF THE CLASSICS CLUB ARE EQUALLY AS FASCINATING. BUNNY CORCORAN IS A WEALTHY AND SPOILED YOUNG MAN WHO IS ALWAYS LOOKING FOR A GOOD TIME. CHARLES TAVIS IS A QUIET AND RESERVED YOUNG MAN WHO IS DEEPLY IN LOVE WITH HENRY. CAMILLA MACAULAY IS A BEAUTIFUL AND INTELLIGENT YOUNG WOMAN WHO IS DRAWN TO THE POWER AND DANGER OF THE CLASSICS CLUB. THE STUDENTS ARE ALL DEEPLY IN LOVE WITH MORROW, AND THEY ARE WILLING TO DO ANYTHING TO PLEASE HIM. MORROW IS A COMPLEX AND MYSTERIOUS FIGURE, AND HE SEEMS TO BE MANIPULATING THE STUDENTS FOR HIS OWN PURPOSES. AS THE STUDENTS BECOME MORE INVOLVED WITH MORROW, THEY BEGIN TO COMMIT INCREASINGLY DANGEROUS ACTS. THE SECRET HISTORY IS A EXCEPTIONAL AND SUSPENSEFUL NOVEL THAT WILL KEEP YOU WONDERING UNTIL THE VERY END. THE NOVEL IS A CAUTIONARY TALE ABOUT THE DANGERS OF OBSESSION AND THE POWER OF EVIL.

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9. BALANCING EBOOKS AND PHYSICAL BOOKS WAVELENGTH 13
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