



PUBLISHING YOUR DISSERTATION

How to prepare your manuscript for publication Promoting your dissertation through UMI's international network of information services



UMI[®]

UMI® Dissertation Publishing offers a complete program of digital and analog publishing as well as bibliographic and copy services. When you publish your dissertation through UMI Dissertation Publishing, your research becomes available through the UMI dissertation database, one of the largest and most widely used specialized research databases in the world. Further, your dissertation is distributed by a network of UMI agents spanning the globe.

PROVIDING INFORMATION ABOUT YOUR DISSERTATION

Digital Resources

The Dissertation Database is the foundation of all UMI online and paper-based dissertation reference products. The database is a computerized index with bibliographic citations for over 1.7 million doctoral dissertations and theses dating back to 1861, when Yale University awarded the first North American doctoral degree. Citations for dissertations published from July 1980 also include author-created abstracts.

Citations for tens of thousands of master's theses are also included. Master's citations from 1988 forward feature 150-word abstracts as well.

Your dissertation will be one of the more than 45,000 dissertations and 10,000 master's theses added to UMI's database each year. New citations are entered into the database monthly.

Dissertation Abstracts Online electronically reproduces the full text of dissertation abstracts published since July 1980. Updated monthly, this online service includes both current abstracts and UMI's entire database of citations for dissertations and theses. Master's theses are added to the online file bimonthly. UMI's computerized search and retrieval system will cite your dissertation in response to any inquiry

using search terms included in your title or abstract. Researchers with access to OCLC, Silver Platter, Dialog®, and STN® online information search services can also search UMI's database and place orders online.

Dissertation Abstracts Ondisc (DAO) provides access to the dissertation database on compact disc.

ProQuest Digital Dissertations (PQDD) is UMI's Web-based digital library of dissertations and master's theses. Begun in 1997, PQDD now provides online access to the full text of over 300,000 dissertations and master's theses in Adobe PDF format. PQDD also provides Web access to the entire Dissertation Abstracts database. Researchers worldwide can access the most recent two years of citations and abstracts at no charge. Institutional subscriptions to the entire 1.7 million citations also are available. In addition, ProQuest Digital Dissertations provides free 24-page preview files of titles published since 1997, as well as free return access to source institutions for the titles they submitted for publication and individualized websites for submitting institutions.

Paper-based Resources

Dissertation Abstracts International. The abstract you prepare will appear in UMI's monthly publication, *Dissertation Abstracts International (DAI)*. The authoritative source for concise summaries of current doctoral research, *DAI* is available in practically every university and research library in North America as well as throughout Europe and the Far East.

The Comprehensive Dissertation Index (CDI) is the most comprehensive printed reference to doctoral dissertations accepted in North America. The set includes the landmark 37-volume *CDI* 1861-1972, the *CDI* Ten-Year Cumulation 1973-1982, and the *CDI* Five-Year Cumulation 1983-1987. Together with the *CDI* annual supplements, these powerful bibliographic tools allow access to over 1.7 million dissertations spanning more than 130 years.

American Doctoral Dissertations (ADD) is an annual bibliography of dissertations. Citations are hierarchically arranged by subject and institution and indexed by author. *ADD* is compiled by UMI for The Association of Research Libraries.

WHAT IS INVOLVED IN PUBLISHING YOUR DISSERTATION?

Upon receipt of your dissertation and abstract, UMI Dissertation Publishing assigns a unique ISBN to your dissertation, creates an enhanced bibliographic record with additional subject codes and keywords for cross-referencing, and distributes that record and dissertation abstract to its worldwide network of information resources. In one form or another, the UMI dissertation database is available at every major research library in the world. Moreover, online bibliographic resources such as OCLC, Silver Platter, STN®, and Dialog® make the database available to other researchers. An international network of distribution agents ensures that copies of your dissertation become available to libraries worldwide.

UMI will produce copies on demand from either the master digital file or a digitized copy of the paper manuscript. Researchers can obtain digital copies, as well as softbound or hardbound copies reproduced at two-thirds of the 8 1/2" x 11" manuscript size. Libraries and institutions can choose electronic copies, paper copies, or 98-page positive microfiche.

UMI's ProQuest Digital Dissertations program lets Web users search for titles of interest, preview the first 24 pages of titles from 1997 forward, and order digital copies in Adobe® Acrobat PDF® for immediate downloading.

Author Services

Author Discounts. As a UMI author, you will always receive our academic price on copies of your own dissertation. However, at the time of publication, UMI is able to offer you a special

one-time-only discount. This is a cost-effective way for you to get hardbound or softbound copies of your dissertation for personal use or distribution on archival-quality, acid-free paper. To order copies of your dissertation at the author discount price, use the order form in the back of this booklet.

Author Royalties. UMI will pay a 10% royalty on all sales of your dissertation. Royalty payments must exceed \$10.00 in a calendar year to be paid. If you change your address, please notify UMI directly so we know where to send your royalties.

The Publishing Agreement that you sign with us (see insert) grants UMI the following rights:

- the non-exclusive right to reproduce and distribute your dissertation in and from microform

- the non-exclusive right to reproduce and distribute your dissertation in and from an electronic format

- the non-exclusive right to reproduce and distribute your abstract in any format in whole or in part

These rights do not prevent you from granting other publishing rights as you choose.

Manuscript Preparation

Copyrighting Your Manuscript. Copyright privileges reside with you immediately upon creation of your work. Registration of your copyright establishes a public record of your dissertation and confers additional legal rights, enabling you to file infringement suits and seek statutory damages and attorneys' fees. If you wish to register your copyright but prefer not to handle the details yourself, UMI will act as your agent with the Library of Congress Copyright Office. This includes preparation of the application (in your name) plus submission of the application fee and required deposit copy(ies) of your work. You will receive your certificate of copyright registration from the Copyright Office approximately six to eight weeks after UMI receives your manuscript.

Preparing Your Manuscript for Publication. UMI accepts dissertations and master's theses by graduates of accredited, degree-granting institutions.

Full texts in both paper and digital formats are distributed exactly as they are submitted. They are neither edited, typeset, nor re-typed.

When your dissertation is ready for publication, you will be asked to submit a typed or digital

copy of the manuscript to your university, along with an abstract of the contents. Your university will then forward the material to UMI. Please note: Some universities have a different procedure, so check with your graduate school first.

Your Manuscript Title. Use word substitutes for formulas, symbols, superscripts, Greek letters, or other non-alphabetical symbols in the title. If your title contains symbols or non-Roman letters, please suggest appropriate translations using Roman letters and provide them as keywords (see next section).

EXAMPLES:

Surface and colloid chemical studies of gamma ferric oxide dispersions

Chromosomal localization of the alpha- and beta-globulin of the chicken, *Gallus domesticus*

A study of high critical transition temperature superconductivity in the neodymium-barium-copper oxide system

Neutral kaon and lambda production in electron-positron annihilation at 29 GeV and the Z boson resonance

UMI editors may make some changes in punctuation or spelling of your title to maintain consistency in the database. For example, we may add a colon to delineate a subtitle. No changes are ever made to the manuscript itself, so your title page will remain as we received it.

Added Keywords. UMI editors select words and phrases to index your dissertation in our print products, and provide added topical entries for researchers. You will be asked to suggest added keywords on the agreement form.

Some of these added keywords are taken into the electronic products and appear in parentheses at the end of the dissertation title. Authors sometimes find those added keywords confusing and believe UMI has changed their title. However, these keywords are not part of the title and will not appear on copies or in print. They appear only in the electronic products to enhance retrieval.

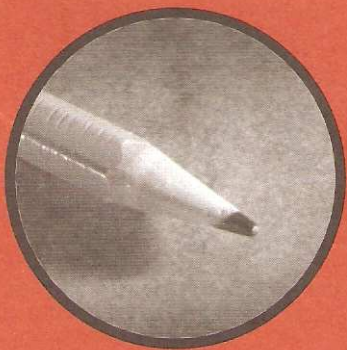
continued...

D



DOCTORAL DISSERTATION AGREEMENT FORM

Author Discount Order Form with Instructions and One-Time-Only Discount Offer With Instructions and Subject Categories List



UMI[®]

INSTRUCTIONS

For Doctoral Dissertation Agreement Form. Please complete this agreement carefully, so that your dissertation can be published as rapidly as possible. Please type or print, and look through the following instructions for explanations concerning the Agreement Form.

ITEM 1: Full name. This should be identical to the name on your title page, since your name will be used to access your dissertation in the database.

ITEM 3: Future mailing address. This is the address at which you can be reached after you have completed your degree requirements. It will be used in mailing any royalties due from the sale of your dissertation.

ITEM 4: Please enter university name, plus college or department within the university. For example: Harvard University, School of Divinity.

ITEM 8: Dissertation title. The words used in the title of your dissertation are the access points for researchers who may use computerized keyword searching techniques to identify works in various subject areas. The words in your title should be selected carefully to represent as accurately as possible the subject content of your dissertation.

The published title will be upper/ lower case. To ensure accuracy, the author should include all appropriate accents or diacritical marks.

Authors of scientific and engineering dissertations should use word substitutes for formulas, symbols, and superscripts or subscripts, Greek letters, etc. For example, "Metabolic relationships of P_i and K^+ uptake mechanisms in snap bean (*P. vulgaris*) roots" should be written "Metabolic relationships of inorganic phosphate and potassium uptake mechanisms in snap bean (*Phaseolus vulgaris*) roots."

ITEM 9: Additional keywords. If retrieval of your dissertation would be enhanced, you may add up to five keywords. For example, geographical locations or scientific names not mentioned in your title or abstract might be listed.

ITEM 10: Dissertation subject category. Select from the "Subject Categories" list on page A3 the category related to the discipline and content of your dissertation, under which you wish to have your abstract published. Enter the corresponding four-digit code and the category name. If you wish, you may indicate additional subject codes and categories that would enhance electronic retrieval.

ITEM 12: UMI Dissertation Publishing will file, on your behalf, an application for registration of a claim of copyright for your dissertation. Please complete the "Authorization to Apply for Registration of My Claim to Copyright" section on page A5. The certificate of registration will be mailed to you by the Copyright Office approximately six to eight weeks after we receive your dissertation for publication. This service is available only for authors publishing their dissertations with UMI Dissertation Publishing.

If your dissertation has been previously published and is registered with the Copyright Office, please enter the copyright notice on the back of the form, exactly as it appears in the previously published edition.

If you have any questions as you complete this form, please feel free to call toll free at 800-521-0600, ext. 7020, or email disspub@umi.com.

AUTHOR CHECK LIST

If you have any questions concerning the publication of your manuscript, call toll free at 800-521-0600. Ask for UMI Dissertation Publishing Customer Service at ext. 7020, or email disspub@umi.com.

- ☐ Does your dissertation abstract adhere to the maximum word length of 350 words? (We reserve the right to edit longer abstracts.)
- ☐ Are words substituted for formulas and symbols in the title? Are accents included?
- ☐ Are permission letters for previously copyrighted materials attached to the Agreement Form?
- ☐ Is a subject classification indicated on the Agreement Form?
- ☐ Do the copyright permission letters state that ProQuest Information and Learning may supply copies on demand?
- ☐ Our most common problem is missing pages. Are all pages present and numbered consecutively?
- ☐ Have you attached a copy of your abstract and title page to the Agreement Form?
- ☐ If the work is to be copyrighted, is all the appropriate information completed on the Agreement Form?
- ☐ Is your adviser's name and title clearly indicated?
- ☐ Have you enclosed a check or money order for your copyright fee? (Credit cards not accepted for copyright fee.)
- ☐ Is your name, in full, on the title page of the work, the abstract, and the Agreement Form? Is the name identical on all three? The manuscript will be published under the most complete name given, if unclear.
- ☐ Have you enclosed payment for your author discount copies? See page A6. (Credit card, check, or money order is acceptable.)
- ☐ Have you signed in the appropriate places on the back of the Agreement Form?
- ☐ Have you included an English title and abstract if original is in another language?
- ☐ Have you included your Social Security number?

SUBJECT CATEGORIES

Dissertation Abstracts International is arranged by subject categories. Please select the one subject which most nearly describes the content of your dissertation.

The Humanities and Social Sciences

COMMUNICATIONS AND THE ARTS

| | |
|----------------------------|-------|
| Architecture | .0729 |
| Art History | .0377 |
| Cinema | .0900 |
| Dance | .0378 |
| Design and Decorative Arts | .0389 |
| Fine Arts | .0357 |
| Information Science | .0723 |
| Journalism | .0391 |
| Landscape Architecture | .0390 |
| Library Science | .0399 |
| Mass Communications | .0708 |
| Music | .0413 |
| Speech Communication | .0459 |
| Theater | .0465 |

EDUCATION

| | |
|-----------------------------|-------|
| General | .0515 |
| Administration | .0514 |
| Adult and Continuing | .0516 |
| Agricultural | .0517 |
| Art | .0273 |
| Bilingual and Multicultural | .0282 |
| Business | .0688 |
| Community College | .0275 |
| Curriculum and Instruction | .0727 |
| Early Childhood | .0518 |
| Educational Psychology | .0525 |
| Elementary | .0524 |
| Finance | .0277 |
| Guidance and Counseling | .0519 |
| Health | .0680 |
| Higher | .0745 |
| History of | .0520 |
| Home Economics | .0278 |
| Industrial | .0521 |
| Language and Literature | .0279 |
| Mathematics | .0280 |
| Music | .0522 |

| | |
|------------------------|-------|
| Philosophy of | .0998 |
| Physical | .0523 |
| Reading | .0535 |
| Religious | .0527 |
| Sciences | .0714 |
| Secondary | .0533 |
| Social Sciences | .0534 |
| Sociology of | .0340 |
| Special | .0529 |
| Teacher Training | .0530 |
| Technology | .0710 |
| Tests and Measurements | .0288 |
| Vocational | .0747 |

LANGUAGE, LITERATURE, AND LINGUISTICS

| | |
|--------------------------|-------|
| Language | |
| General | .0679 |
| Ancient | .0289 |
| Linguistics | .0290 |
| Modern | .0291 |
| Rhetoric and Composition | .0681 |
| Literature | |
| General | .0401 |
| Classical | .0294 |
| Comparative | .0295 |
| Medieval | .0297 |
| Modern | .0298 |
| African | .0316 |
| American | .0591 |
| Asian | .0305 |
| Canadian (English) | .0352 |
| Canadian (French) | .0355 |
| Caribbean | .0360 |
| English | .0593 |
| Germanic | .0311 |
| Latin American | .0312 |
| Middle Eastern | .0315 |

| | |
|--------------------------|-------|
| Romance | .0313 |
| Slavic and East European | .0314 |

PHILOSOPHY, RELIGION, AND THEOLOGY

| | |
|------------------|-------|
| Philosophy | .0422 |
| Religion | |
| General | .0318 |
| Biblical Studies | .0321 |
| Clergy | .0319 |
| History of | .0320 |
| Philosophy of | .0322 |
| Theology | .0469 |

SOCIAL SCIENCES

| | |
|-------------------------|-------|
| American Studies | .0323 |
| Anthropology | |
| Archaeology | .0324 |
| Cultural | .0326 |
| Physical | .0327 |
| Business Administration | |
| General | .0310 |
| Accounting | .0272 |
| Banking | .0770 |
| Management | .0454 |
| Marketing | .0338 |
| Canadian Studies | .0385 |
| Economics | |
| General | .0501 |
| Agricultural | .0503 |
| Commerce-Business | .0505 |
| Finance | .0508 |
| History | .0509 |
| Labor | .0510 |
| Theory | .0511 |
| Folklore | .0358 |
| Geography | .0366 |
| Gerontology | .0351 |

| | |
|----------------------------------|-------|
| History | |
| General | .0578 |
| Ancient | .0579 |
| Medieval | .0581 |
| Modern | .0582 |
| Black | .0328 |
| Church | .0330 |
| African | .0331 |
| Asia, Australia, and Oceania | .0332 |
| Canadian | .0334 |
| European | .0335 |
| Latin American | .0336 |
| Middle Eastern | .0333 |
| United States | .0337 |
| History of Science | .0585 |
| Law | .0398 |
| Political Science | |
| General | .0615 |
| International Law and Relations | .0616 |
| Public Administration | .0617 |
| Recreation | .0814 |
| Social Work | .0452 |
| Sociology | |
| General | .0626 |
| Criminology and Penology | .0627 |
| Demography | .0938 |
| Ethnic and Racial Studies | .0631 |
| Individual and Family Studies | .0628 |
| Industrial and Labor Relations | .0629 |
| Public and Social Welfare | .0630 |
| Social Structure and Development | .0700 |
| Theory and Methods | .0344 |
| Transportation | .0709 |
| Urban and Regional Planning | .0999 |
| Women's Studies | .0453 |

The Sciences and Engineering

BIOLOGICAL SCIENCES

| | |
|------------------------------|-------|
| Agriculture | |
| General | .0473 |
| Agronomy | .0285 |
| Animal Culture and Nutrition | .0475 |
| Animal Pathology | .0476 |
| Fisheries and Aquaculture | .0792 |
| Food Science and Technology | .0359 |
| Forestry and Wildlife | .0478 |
| Plant Culture | .0479 |
| Plant Pathology | .0480 |
| Soil Science | .0481 |
| Range Management | .0777 |
| Soil Science | .0481 |
| Wood Technology | .0746 |
| Biology | |
| General | .0306 |
| Anatomy | .0287 |
| Animal Physiology | .0433 |
| Biostatistics | .0308 |
| Botany | .0309 |
| Cell | .0379 |
| Ecology | .0329 |
| Entomology | .0353 |
| Genetics | .0369 |
| Limnology | .0793 |
| Microbiology | .0410 |
| Molecular | .0307 |
| Neuroscience | .0317 |
| Oceanography | .0416 |
| Plant Physiology | .0817 |
| Veterinary Science | .0778 |
| Zoology | .0472 |
| Biophysics | |
| General | .0786 |
| Medical | .0760 |

EARTH AND ENVIRONMENTAL SCIENCES

| | |
|------------------------|-------|
| Biogeochemistry | .0425 |
| Environmental Sciences | .0768 |
| Geochemistry | .0996 |
| Geodesy | .0370 |
| Geology | .0372 |
| Geophysics | .0373 |
| Hydrology | .0388 |
| Mineralogy | .0411 |
| Paleobotany | .0345 |
| Paleoecology | .0426 |
| Paleontology | .0418 |
| Paleozoology | .0985 |
| Palynology | .0427 |
| Physical Geography | .0368 |
| Physical Oceanography | .0415 |

HEALTH SCIENCES

| | |
|--------------------------------|-------|
| Health Sciences | |
| General | .0566 |
| Audiology | .0300 |
| Dentistry | .0567 |
| Education | .0350 |
| Health Care Management | .0769 |
| Human Development | .0758 |
| Immunology | .0982 |
| Medicine and Surgery | .0564 |
| Mental Health | .0347 |
| Nursing | .0569 |
| Nutrition | .0570 |
| Obstetrics and Gynecology | .0380 |
| Occupational Health and Safety | .0354 |
| Oncology | .0992 |
| Ophthalmology | .0381 |
| Pathology | .0571 |
| Pharmacology | .0419 |
| Pharmacy | .0572 |
| Public Health | .0573 |
| Radiology | .0574 |

| | |
|----------------------------|-------|
| Recreation | .0575 |
| Rehabilitation and Therapy | .0382 |
| Speech Pathology | .0460 |
| Toxicology | .0383 |
| Home Economics | .0386 |

PHYSICAL SCIENCES

| | |
|--------------------------------------|-------|
| Pure Sciences | |
| Chemistry | |
| General | .0485 |
| Agricultural | .0749 |
| Analytical | .0486 |
| Biochemistry | .0487 |
| Inorganic | .0488 |
| Nuclear | .0738 |
| Organic | .0490 |
| Pharmaceutical | .0491 |
| Physical | .0494 |
| Polymer | .0495 |
| Radiation | .0754 |
| Mathematics | .0405 |
| Physics | |
| General | .0605 |
| Acoustics | .0986 |
| Astronomy and Astrophysics | .0606 |
| Atmospheric Science | .0608 |
| Atomic | .0748 |
| Condensed Matter | .0611 |
| Electricity and Magnetism | .0607 |
| Elementary Particles and High Energy | .0798 |
| Fluid and Plasma | .0759 |
| Molecular | .0609 |
| Nuclear | .0610 |
| Optics | .0752 |
| Radiation | .0756 |
| Statistics | .0463 |
| Applied Sciences | |
| Applied Mechanics | .0346 |
| Computer Science | .0984 |

| | |
|----------------------------|-------|
| Engineering | |
| General | .0537 |
| Aerospace | .0538 |
| Agricultural | .0539 |
| Automotive | .0540 |
| Biomedical | .0541 |
| Chemical | .0542 |
| Civil | .0543 |
| Electronics and Electrical | .0544 |
| Environmental | .0775 |
| Industrial | .0546 |
| Marine and Ocean | .0547 |
| Materials Science | .0794 |
| Mechanical | .0548 |
| Metallurgy | .0743 |
| Mining | .0551 |
| Nuclear | .0552 |
| Packaging | .0549 |
| Petroleum | .0765 |
| Sanitary and Municipal | .0554 |
| System Science | .0790 |
| Geotechnology | .0428 |
| Operations Research | .0796 |
| Plastics Technology | .0795 |
| Textile Technology | .0994 |

PSYCHOLOGY

| | |
|---------------|-------|
| General | .0621 |
| Behavioral | .0384 |
| Clinical | .0622 |
| Cognitive | .0633 |
| Developmental | .0620 |
| Experimental | .0623 |
| Industrial | .0624 |
| Personality | .0625 |
| Physiological | .0989 |
| Psychobiology | .0349 |
| Psychometrics | .0632 |
| Social | .0451 |

DOCTORAL DISSERTATION AGREEMENT FORM

FORM D (2002) For assistance, call toll free in the US and Canada: 800-521-0600, ext. 7020.

Personal Data

Please type or print in block letters.

Do not write in this space.

1. _____
Last Name First Name Middle Name

2. Country of citizenship _____

3. Present Mailing Address

Street Address _____

City _____ State _____ Zip or Postal Code _____

Country _____

Future Mailing Address

Street Address _____

City _____ State _____ Zip or Postal Code _____

Country _____

Effective date for future mailing address (mm dd yy) _____

Home telephone number () _____ Business phone () _____

Email _____

Royalty _____ Yes*

Restriction Code _____

Total Pages _____

Vol./Issue _____

School Code _____

Copyright ☐ Yes ☐ No

Year _____

Doctoral Degree Data

4. Full name of university conferring degree, and college or division if appropriate

Department of university _____

Adviser _____

5. Abbreviation for degree awarded _____

6. Year degree awarded _____ 7. Year manuscript completed _____

Dissertation Title and Subject Data

8. Important: Attach a copy of your dissertation title page and abstract to this Agreement Form. Please make sure the name of your adviser/director appears on either the title page or the abstract.

9. List up to six keywords or short phrases for indexing and database access:

a. _____ d. _____

b. _____ e. _____

c. _____ f. _____

10. Subject category for your manuscript. Enter four-digit code from "Subject Categories" list, followed by the name of the category selected.

(You may enter two additional categories and/or codes on the extra lines provided.)

11. Primary language of text (if other than English) _____

Copyright Data

12. If you would like to have filed, on your behalf, an application for registration of a claim of U.S. copyright for your dissertation, please read and sign the "Authorization" section on the reverse side of this Agreement Form. (over)

IMPORTANT: You must sign the "Dissertation Publishing Agreement Form" on the reverse side of this page.

PUBLISHING AGREEMENT FORM

Dissertation Publishing Agreement Through my graduate school, I agree to supply you, ProQuest Information and Learning Company (PQIL), with my paper dissertation and with an abstract of 350 words or less. The title of my dissertation is set forth on the accompanying title page. If my dissertation is being submitted in a digital format, including CD-ROM, I agree to supply you, ProQuest Information and Learning Company (PQIL), with my dissertation in digital format and the following supporting documents on paper: a title page, an abstract of 350 words or less, a description of software or other applications used to create the document, including a list of files and file sizes, copies of licenses for third party software which will be replicated, distributed and used with the document and written permission to distribute any third party software, as well as previously copyrighted materials within the body of the work including images, video, graphics, text, data and images of individuals.

I hereby grant to PQIL the non-exclusive right to reproduce and distribute my dissertation, in whole or in part, in and from microform along with the non-exclusive right to reproduce and distribute my abstract in any format in whole or in part. Further, I hereby grant to PQIL the non-exclusive right to reproduce and distribute my dissertation, in whole or in part, in and from an electronic format. Other publication rights may be granted as I choose.

Author's Signature _____ Date _____
Publishing Authorization

Social Security Number - -
Required for payment of royalties

I represent and warrant to PQIL that the dissertation and the abstract are my original work, do not infringe or violate any rights of others, and that I make these grants as the sole owner of the rights to my dissertation and abstract. If my dissertation is in CD-ROM or another digital format, I further represent and warrant that I have obtained all necessary rights to permit PQIL to reproduce and distribute any non-public third party software necessary to access, display, run or print my dissertation. I acknowledge that PQIL may elect not to distribute my dissertation in digital format if, in its reasonable judgment, it believes all such rights have not been secured.

Subject to the preceding paragraphs, PQIL agrees to offer copies of my dissertation for sale, and to publish an abstract of my dissertation in Dissertation Abstracts International. In accordance with the Copyright Act of 1976, PQIL will deposit one copy of my dissertation with the Library of Congress. This deposit will be in digital, microform or other format as required by the Library of Congress and will be available for inspection. PQIL also agrees to pay a royalty of 10% on all sales of my dissertation. Royalty payments must exceed \$10 in a calendar year to be paid. In order to be eligible for such royalties in any calendar year, I agree that it is my obligation to notify PQIL of any change of address.

Authorization to Apply for Registration of My Claim to Copyright

Has registration for your published dissertation, or for an earlier version of the manuscript, been made with the Copyright Office? ☐ Yes ☐ No

If "Yes," by whom was the registration made? _____

Previous registration number _____ Year of Registration _____

I authorize you, PQIL, to file in my behalf, an application for registration of a claim of U.S. copyright, in my name, for my dissertation. PQIL agrees to complete the application form, and file it, together with the registration fee and required deposit copy(ies) of my dissertation, with the Copyright Office. I represent to PQIL that the information I have provided PQIL on the accompanying information questionnaire is accurate.

My certified check or money order to PQIL for \$45.00 is enclosed, unless I have paid the fee to my graduate school for forwarding to PQIL. I understand that I will receive the registration form from the Copyright Office.

Author's Signature _____ Date _____
Copyright Authorization

Do not write in this space.

Release date _____ Packing slip number _____

ONE-TIME-ONLY AUTHOR DISCOUNT OFFER

FORM D For assistance, call toll free in the US and Canada: 800-521-0600, ext. 7020.

Order Now and Save 30% on Copies of Your Dissertation

Producing copies of your dissertation is less expensive at the time of publication than at any other time. We pass these savings along to you now in the form of a substantial one-time-only discount.

Take advantage of this opportunity to acquire copies of your dissertation:

- for your personal use
- for distribution
- for future reference

Fill in the Author Discount Order Form for copies of your dissertation. Attach it to your signed and completed Agreement Form and return it to UMI Dissertation Publishing.

Dissertation copies are shipped approximately 4 to 6 weeks after we receive your manuscript for publication.

Authors, Please Note:

- The finished book is approximately **two-thirds** of the original manuscript size, or **6 1/2" x 8 1/4"**.
- Orders submitted at the time of publication do not earn a royalty.
- Please inform us of any address change.
- This offer is valid only at the time of publication. All prices are subject to change.

Instructions for ordering dissertation copies:

- All orders must be accompanied by payment in full or complete credit card information, including card number, expiration date, telephone number, and signature.
- Payment in full must be made by credit card, cashier's check, money order, or certified check.
- Enter the quantity and total price for each format ordered.
- Add sales tax for the state to which this order will be shipped.
- Please type or print.

If you have any questions, please call UMI Dissertation Publishing toll free at 800-521-0600, ext. 7020.

Author's name as it appears on dissertation:

Last name

First name

Middle name

First three words of dissertation title

Graduate school

Year degree awarded

Author Discount ORDER FORM

| Qty | Format | Price | Total Price |
|-----|--|--------------|-------------|
| | Softcover paper copy (6 1/2" x 8 1/4") | \$29.00 | |
| | Hardcover paper copy (6 1/2" x 8 1/4") | \$35.00 | |
| | Microfiche copy (105mm) 98-page format | \$26.00 | |
| | | Sub-Total | |
| | | Sales Tax | |
| | | Total | |

Enclosed is my cashier's check, money order or certified check made payable to ProQuest Information and Learning Company in the amount of \$ _____.

Please charge my:

☐ American Express ☐ Visa ☐ MasterCard

Account No. _____

Expiration Date _____

Signature _____

(Authors, please note: Your account will not be charged until your copies have been shipped.)

Send the above order to: _____

Name

Address

City/State/Zip

Phone (business hours)

EXAMPLES:

Continuous-wave, cooperative
upconversion lasers. (quantum
efficiency, energy transfer)

Parallel algorithms with ultra-fast
expected times. (load balancing,
sorting, randomization)

Problems of text and reception: Mixail
Zoščenko. (Soviet Union)

Selecting a Subject Category for Your

Manuscript. The UMI dissertation database is arranged by subject categories. Your abstract will appear in *Dissertation Abstracts International* under one category only. In the Agreement Form (see insert) you will be asked to choose the category that most nearly describes the general content of the dissertation. You may select additional categories to enhance electronic retrieval. Your guide will be the "Subject Categories" listing, which also appears in the insert (page A3). For assistance with keyword or subject field choice, see page 5.

Preparing Your Abstract. Your abstract (a succinct description of your work) is limited to 350 words. We'll shorten it if we must, but we feel you're best qualified to edit it, so please don't exceed the limit.

Please follow these guidelines:

- Include pertinent place names, names of persons (in full), and other proper nouns. These are useful in automated retrieval.
- Display symbols, as well as foreign words and phrases, clearly and accurately. Include transliterations for characters other than Roman and Greek letters and Arabic numerals. Include accents and diacritical marks.
- Do not include graphs, charts, tables, or illustrations in your abstract.
- If the original abstract is not in English and an English translation has been made, please send both the English and the foreign language abstracts.

Using Materials Copyrighted by Others. As the author of the manuscript, you will be asked to certify that any previously copyrighted material used in your work, beyond "fair use," is with the written permission of the copyright owner. Please refer to *Copyright Law & Graduate Research: New Media, New Rights and Your New Dissertation* by Dr. Kenneth Crews. This booklet is available at no charge from UMI. Ask your graduate school office to request paper copies or visit our website at <http://www.umi.com/hp/Support/DServices/copyright/> for the latest digital version.

By signing the Agreement Form you agree to the above terms. You must also attach copies of permission letters from copyright owners to the Agreement Form. These letters must state that the copyright owner is aware that UMI may supply single copies on demand. If permissions are not supplied, copyrighted materials will not be reproduced.

Preparing the Paper Text of Your Manuscript.

- Your graduate school's requirements always supersede UMI's requirements.
- Type or print your manuscript single-sided on high-quality white paper, 8 1/2" x 11" or A4 in size. Please do not use erasable papers.
- All textual materials should be double-spaced. Long quotations and footnotes may be single-spaced.
- Because the manuscript will be reduced in size, we recommend that you select font size 12 and no smaller than 10 in Arial, Helvetica, or Century Gothic fonts.
- The print should be letter quality with dark black characters that are consistently clear and dense.

● To ensure the best quality, it is recommended that the original copy be submitted

● Pages with small and indistinct print and/or very narrow margins may be illegible in microform.

● We recommend a minimum 1" margin on all four sides of the page.

● Photocopies made from poor-quality originals cannot be properly reproduced. These poor-quality copies tend to occur most frequently in manuscript appendices.

● Our most common problem is missing pages. To avoid delays in publication, please make certain that the copy you submit includes all the pages of your manuscript.

Charts, Graphs, Tables, Photographs, and Oversize Maps. Illustrative material drawn or computer-generated in black will reproduce satisfactorily, while colors will appear as slightly varying shades of gray.

Please keep in mind:

● Lines on a graph should be identified by labels or symbols rather than colors.

● Shaded areas – such as countries on a map – will have better contrast if cross-hatching is used instead of color.

● Photographs should be professional-quality black and white.

● Color photographs should be reprinted in black and white by a photo lab. Most photographs will reproduce acceptably on positive microform but will lack clarity on paper copies.

● Charts, graphs, and maps that are larger than the standard 8 1/2" x 11" page size may be used in your manuscript. These should be carefully folded into the manuscript or rolled and placed in a mailing tube.

Dissertations in Digital Format. More detailed information is available at http://www.lib.umi.com/dissertations/about_etds.

At universities that accept dissertations or theses in electronic format, authors may submit digital documents to UMI through their graduate school or school library, preferably by FTP. Graduate school or library staff charged with digital submission to UMI should contact UMI Dissertation Publishing Support at 1-800-521-0600, ext. 7020, for complete FTP instructions.

Basic Guidelines for Dissertations in Digital Format. The document should appear in Adobe PDF without compression or password protection. UMI Dissertation Publishing can make no changes to the document. Therefore,

how the document looks when it is accessed or printed is entirely the responsibility of the author. It is the author's responsibility to reformat the document into Adobe PDF, check the reformatted document for accuracy, and submit the PDF document to the graduate school or library for publication.

All fonts used should be embedded in the document. External or internal links to multimedia files are acceptable. If multimedia elements are used in the document, file formats should be identified in the dissertation abstract. Large multimedia files may be submitted on CD-ROM. Acceptable formats are:



UMI Dissertation Publishing thanks the graduate deans of the many institutions throughout the world that participate in our publishing program. Their cooperation makes possible the continuing growth and increasing value of UMI Dissertation Publishing.

Images:

- GIF (.gif)
- JPEG (.jpeg)
- TIFF (.tif)

Video:

- Apple Quick Time (.mov)
- Microsoft Audio Video Interleaved (.avi)
- MPEG (.mpg)

Audio:

- AIF (.aif)
- CD-DA
- CD-ROM/XA
- MIDI (.midi)
- MPEG-2
- SND (.snd)
- WAV (.wav)

Supporting Documents. Supporting documents should be forwarded on paper in an 8 1/2" X 11" envelope. You should provide:

- Title Page
- Abstract
- Completed Agreement Form
- Completed Author Discount Order Form
- Money Order/Check
- Reprint Permission Letters
- Third party software licenses, if required

Print and Electronic Access to Dissertations in Electronic Format.

Bibliographic citations and abstracts for documents received in digital format will be published in Dissertation Abstracts International in print, online, CD-ROM and microform.

Bibliographic information concerning these documents will also be made available through the UMI Dissertation Abstracts database and to a worldwide network of online information providers including OCLC, Dialog®, Silver Platter, and STN®. The PDF format of the document will be loaded into ProQuest Digital Dissertations, a digital archive of dissertations and theses. UMI Dissertation Publishing will check for document integrity and copyright compliance. **If the document appears to be incomplete or if there are questions about the reproduction of previously copyrighted materials, publication will be delayed until those concerns are resolved.**

FOR MORE INFORMATION ON PUBLISHING YOUR MANUSCRIPT ...

If you have any questions about your manuscript or any UMI resources, please call toll free at 800-521-0600. Enter the appropriate extension: • Copyright information or preparing manuscript: ext. 7020 • Ordering copies of your manuscript: ext. 7020 • Dissertation search: ext. 3781 • Choosing subject codes or keywords: • Social Sciences/Humanities: ext. 4883 • Sciences and Engineering: ext. 4881 • Or fax us a message at 734-997-4108 (regarding manuscripts) or 734-977-4031 (regarding searches). • Email us at disspub@umi.com

ProQuest
Information and Learning

UMI Dissertation Publishing
ProQuest Information and Learning
300 North Zeeb Road
PO Box 1346
Ann Arbor, MI 48106-1346 USA

734.761.4700 800.521.0600
disspub@umi.com
www.umi.com



FC VB

2
0
1
2
3
4
5
6
7
8
9

TR: 24

TE: 1

256x256

FOV:

Thk:

Imgs:

D i s s e r t a t i o n P u b l i s h i n g