ProQuest

NTIS (technical reports)
ProQuest Dissertations & Theses
Advanced Technologies & Aerospace Materials Science & Engineering

and many more databases
ProQuest Databases

- **NTIS** (research reports); **Advanced** Technologies & Aerospace; **Materials** Science and Engineering; **ProQuest Dissertations** and Theses (many full text dissertations); **ABI/INFORM** (business and management); **GeoRef** (geophysics); **PAIS** (public affairs), and many other ProQuest databases

- **Advanced**
  - Advanced Search
  - “Command Line Search”
    - Command Line -- “Add Search Fields” such as **Authors** -- “Look up Authors” (author name format differs by database)

Library Search Hints & Guides [http://www.prism.gatech.edu/~bw21/](http://www.prism.gatech.edu/~bw21/)
Search **multiple** ProQuest databases at one time, removing duplicates.

- **“Change Databases”** (top row, right side)
- **Check boxes for relevant** databases (NTIS, Aerospace, etc.)
- **“Use selected databases”**
ProQuest Databases – Use “NOFT”

Limit with “NOFT” to bibliographic record keywords (“Anywhere except full text”). Advanced or Basic Search

- Advanced search – drop down menu choice “Anywhere except full text - NOFT”
- Basic search – NOFT(electrooptic* near/10 holograph*)
- ti, su, ab(radar and model*) and au(smith)
ProQuest Databases

- **Thesaurus** – thesauri are database-specific. Thesaurus terms **differ** from database to database

- "View Field Codes Help"
  - **TI** (title keywords)
  - **SU** “Look up **Subjects**” (thesaurus terms **differ by database**)
  - **AU** (author names)
    - “**Look up Authors**” – author name format differs by database (initials or full first name, etc.)
ProQuest Databases

- **AB**(*abstract*)
- **Multiple fields:**  **TI, SU**(*model* and simulat*) or **ti, ab, su**(*robot* and model*)
- **Advanced search**, use drop down menu choice "Anywhere except full text – **NOFT**" to search all bibliographic fields, but does **not** search the full text field
  - **NOFT**(*microwave* and simulat*)
- **IF**(*keywords identifiers*); may not limit correctly
ProQuest Databases

• "Search tips."
  - Exact phrase "quotations"
  - **Truncate** with **asterisk** (*)
    - Truncation is allowed when using the near/n or pre/n proximity operator. Truncation character (*) - one * for many characters
    - Use the truncation character at the beginning (left-hand truncation), the end (right-hand truncation), or in the middle of search terms
      - nurse*   colo*r     *old (use left-hand truncation sparingly)
      - Single character only: nurse? sm?th. nutr$5
  - Examples:
    - (radar or antenna*) near/ 2 (infrared)
    - **TI ,SU**(cryptolog* and “VLSI”) and **AU**(sherman)
    - YR(2005-2009)
ProQuest Databases

• “Search tips.”
  ▪ near/ # -- two search terms, in any order, within “#” number of words apart
  ▪ (radar or antenna*) near/ 2 (infrared)
  ▪ all(radar near/ 3 "signal processing")
  ▪ pre/ # -- one search term that appears within “#” number of words before a second term (in this order)

• Search multiple databases at the same time - (top row) “Change databases” -- then check only the relevant database boxes
ProQuest Databases

- "Recent searches" – is to the right of "Advanced Search" or the first icon, top right of screen. Now combine searches.

  - "Combine searches" – combine previous searches
    
    (1 AND 3) or ("6")
    
    (1 AND 3) OR (1 AND 2)
    
    3 NOT treatment

Library Search Hints and Guides http://www.prism.gatech.edu/~bw21/
“Recent Searches” – combine previous search statements

• **Icons** top row, right:
  - "Recent Searches"
  - "Selected Items"
  - "My Research"

• "Advanced Search" -- "Recent Searches"
  (1 and (3 or 6)) and treat*
“ProQuest Dissertations & Theses A&I”

- **Very few** new Georgia Tech PhD dissertations are likely to be added to ProQuest Dissertations & Theses after fall 2012.
- Use ProQuest drop down menu in Advanced search and select "Anywhere except full text - NOFT"-- does not search full text fields.
- Search the [Library Catalog](#) for Georgia Tech doctoral dissertations and masters theses, using the Catalog Advanced Search, the "Search Scope" drop down menu (top right) choice "Library Catalog“ or "GT Theses & Dissertations“ (both link).

- Advanced Technologies & Aerospace Database (1962 - current)
- GeoRef (1693 - current)
- Materials Science & Engineering Database (1965 - current)
- NTIS Database (National Technical Information Service, reports) (1964 - current)
- ProQuest Dissertations & Theses (1861 – current)
- Agricultural & Environmental Science Database (1960 – current)
• Do **NOT** “Limit to”
  “Peer Reviewed” or “Full Text”

• Technical reports and conferences are scholarly but are **not** peer reviewed journals

• **NTIS** records are technical reports records (NTIS reports are **not** peer reviewed and are **not** full text)

• **Advanced.. Aerospace, Materials** and **GeoRef** databases index technical reports and conferences (which are **not** peer reviewed)

• **ProQuest Dissertations and Theses** includes only dissertations or theses, not journals (are **not** peer reviewed)

• Do **NOT** check the “Full Text” box. NTIS, Aerospace, Materials, Georef can **not** limit to full text (they are index databases)

• Checking the boxes for “Peer Reviewed” or “Full Text” **eliminates** large numbers of relevant publications
ProQuest Databases

• **Sort** results by:**” **publication date** (most recent first)”. The default is sort by relevance
• **Items per page:**” (set to 100)
• **Date Range:**”

• **Use abstract or full format.** The NTIS “results” brief format currently does not contain the needed technical report number (AD#, DE#, N#, PB#, etc.).

• Full format often contains detailed conference information not given in the brief format.

• To print, save, email, or export, choose full format or “citation, abstract, indexing” (not brief citation format)
ProQuest Databases

• “Find It @ GT”
  ▪ Will **NOT** work for *technical reports* (NTIS and Aerospace databases)
  ▪ Will **NOT** work for most *conference* papers
  ▪ **Will** work for most (but not all) *journal* articles (Materials, Aerospace, etc.)

• "My Research" -- Save, manage, and organize the content and supporting materials, such as **Alerts** or **Saved** searches or saved records
Selected ProQuest Databases

- **NTIS** 1964+ U.S. federally funded technical research reports. Most full reports are available either in **microfiche** or available **electronically** (nearly all are not in the GT Library Catalog)
- **Advanced Technologies & Aerospace Database** 1962+ journals, conferences, technical reports
- **Materials** Science and Engineering 1965+ metals and materials journals, conference, reports
- **GeoRef** 1693+ geoscience journals, books, maps, conferences, reports and theses
Dissertations & Theses

- **ProQuest Dissertations & Theses** 1861+ U.S doctoral dissertations; selected masters theses and selected Canadian & European; selected dissertations back to 1639.
- Most ProQuest Dissertations 1980+ records have **lengthy abstracts**, and many 1997+ are **full text**.
- **Very few new Georgia Tech doctoral** dissertations will be added to ProQuest Dissertations & Theses **after fall 2012**.
- Some theses which are not in this ProQuest database, may be in the [WorldCat (OCLC)](https://www.worldcat.org) library catalog database (try to borrow using ILLiad), or in an online library repository.
- Check the GT [Library Catalog](https://library.gatech.edu) for Georgia Tech doctoral dissertations and masters theses ("Search Scope" menu).
Do NOT "Limit to" "Full Text" or "Peer Reviewed" – large numbers of relevant records are not retrieved if boxes are checked
• “Sort Results by:” “Publication date (most recent first)” – default is sort by relevance
• “Items per page:” (set to 100)

Field searching - AU (Look up Authors), SU (Look up Subjects),"Anywhere except full text - NOFT"
• “Thesaurus” - Thesaurus terms differ from database to database
• Can search multiple fields, such as ti, su(xxxxx) and au(smith)
New Georgia Tech doctoral dissertations after fall 2012

- Very **few new Georgia Tech** dissertations are likely to be added to the **ProQuest Dissertations and Theses** database **after fall 2012**.

- Note: **ProQuest Dissertations and Theses** database is the world’s most comprehensive collection of dissertations and theses, spanning from 1861 - present (selected 1639+)

- **SMARTech** and the Georgia Tech **Library Catalog** include links to **full text Georgia Tech** dissertations and theses (before and after 2012)

- WorldCat Dissertations and Theses indexed Georgia Tech dissertations and theses up to 2014. This is a subset of the **WorldCat OCLC** (worldwide library catalogs) database. For GT theses, check the **Library Catalog** (which links to **SMARTech GT Theses** records)
Georgia Tech doctoral dissertations after fall 2012
See -- Theses & Dissertations by GT Authors
http://www.library.gatech.edu/search/theses_gt.php

• Doctoral students may elect to submit their dissertations to ProQuest for processing and distribution. Authors choosing this option may contact ProQuest for more information or to obtain the appropriate agreement form. Authors can also reach ProQuest Dissertation Publishing at disspub@proquest.com

• Very few Georgia Tech dissertations are indexed in the ProQuest Dissertations & Theses database after fall 2012. For full text, see the GT Library Catalog (Advanced Search, “Search Scope:” “Library Catalog” or “GT Theses and Dissertations”) which links to SMARTech
Top right, choose “Recent searches” -- “Combine searches”

Open a Word file and keep track of your search statement lines

"My Research" Alerts and Saved Searches and Saved Records

We own technical report# ADA175853

NTIS technical reports 1964+
(no report number in brief format)

ProQuest Dissertations and Theses 1861+

“Recent Searches”
For combining previous searches

Advanced Search

Selected Items
Recent Searches

Recent searches
View field codes help
Search tips

Combine searches: 1 AND 2

Examples: 1 AND 3 or "6"
(1 AND 3) OR (1 AND 2)
3 NOT treatment
NTIS 1964+

- Federally sponsored technical research reports, 1964+
- NTIS indexes masters theses, doctoral dissertations etc.
- Check NTIS before interlibrary loan. Try searching author last name and important keywords from the title
- Technical reports are not indexed by most other Library databases
- NTIS does not have an author affiliation field, although the institutional/agency performer may be listed
Library’s Technical Report Collection

- Fill out an **ILLiad** request form for each NTIS indexed technical report
- Be sure to indicate in the **ILLiad “Notes”** field “from the **NTIS database**”
- Selected reports are full text **electronic**. Selected full text reports: Dept of **Energy/DOE**, Dept of **Defense/DTIC**, **NASA/NACA**, **NTRL**, etc.
- The Georgia Tech Library owns over 2,500,000 microfiche technical reports (in LSC remote storage)
Cryptology and VLSI (Very Large Scale Integration). I. Detecting and Exploiting Algebraic Weaknesses in Cryptosystems. II. Algorithms for Placing Modules on a Custom VLSI Chip

Sherman, A T

Find It @ GT

Abstract (summary) Transcript

This dissertation describes two separate and independent investigations in cryptology and VLSI. Part I explores relationships between algebraic and security properties of cryptosystems, focusing on finite, deterministic cryptosystems whose encryption transformations form a group under functional composition. Part II explores the problem of automatically placing modules on a custom VLSI chip, focusing on the placement heuristics used in the MIT PI (Placement and Interconnect) System.

Indexing (details) Cite this

Subjects
Cryptography, Chips(Electronics), Systems engineering, Algebra, Algorithms, Combinatorial analysis, Computations, Heuristic methods, Optimization, Security, Theory, Transformations

Classification

Identifiers / Keywords
Contract N00014-80-C-0622, Data encryption, Computer security, Very large scale integration, Very Large Scale Integration, DES(Data Encryption Standard), Theses, PI(Placement and Interconnect)
<table>
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<td>ProQuest Document ID</td>
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Some records have an **extra check digit** ("1" at the end of the number). The actual report# is **ADA175853**
ProQuest Dissertations & Theses Full Text 1861+ This one is not available through ProQuest. MIT can charge $45-$75 for some theses

First search the thesis in ProQuest Dissertations and Theses. Also search NTIS to see if it is a technical report; if not, fill out an ILLiad request form (the report may be in our LSC microfiche collection). Put in ILLiad “Notes” field - from NTIS database
NTIS. GT owns entire conferences, not individual papers. Reports are identified by the report no. -- See “Availability” “Order as” – here use conference report # N92-33309

A modified version of the Satellite Solar Power System (SPS) is proposed. The original SPS was conceived by Dr. Peter Glaser of MIT in 1968, as a series of large, photovoltaic solar collectors orbiting at geosynchronous altitude, and converting and beaming the collected solar power to the earth surface using microwave energy (which can pass through cloud cover). This system has been studied extensively in the past. The modified version of the SPS will make use of the moon as the 'satellite'.

Indexing (details)  

Cite this

Subjects
Lunar bases, Microwave power beaming, Solar arrays, Solar collectors, Lunar surface, Solar power satellites, Cloud cover, Earth surface, Microwave equipment, Rectennas

Classification

Supplemental Data

Title
Moon as a Solar Power Satellite

Authors
Falbel, G

Publication title

Publication Date
1992

Publication year
1992

Year
1992

Language of Publication
English

Availability
Not Available NTIS NTIS Prices: (Order as N92-33309/5, PC A99/MF A06)

Subfile
NTIS

Report Number
N92333335
• The “Results listing only” (brief format) does not contain the technical report number.
• To locate the NTIS report, the Technical Report number (ADA#, N#, DE#, etc.) is needed. This is not the “contract number.”
• Full Format (citation, abstract, indexing) has technical report number and full conference information.
• Email – full format “citation, abstract, indexing” -- contains technical report number. Shortest format does not contain the number.
The following **thesauri** are available for your currently selected database(s). Note that many thesauri are **database-specific**, and may limit your search results to documents from those databases.

- **Thesaurus** – database specific
- “**Broader Terms**”
- “**Related Terms**”
- Use **synonyms** in your search, such as **simulat* or model* or algorithm* or mathematical**
ProQuest Search tips

Table of Contents
- Welcome
  - Search syntax and field codes
    - Search tips
    - MeSH Codes
    - Common field codes
    - Database specific field codes
- Search
- Search results
- Document view
- My Research

ProQuest Help
Search Tips

Print this topic
Search syntax and field codes > Search Tips

» Looking for field code lists?

Successful searching is largely about being precise.
The tips, techniques, and information here can help you search with precision and find what you need.

Basics
- How ProQuest interprets your search
- Operators, fields, and special characters
  - Operator precedence
- Search fields
- Wildcards and truncation
- Subject searching
Other databases

• **ABI/Inform** (ProQuest). 1971+ Business and management science journals, newsletters, etc. About half full text

• Excellent **Business and Management**, Company, Industry Research Guides by Patricia Kenly

• General databases: **ProQuest Central**

• **PAIS** (Proquest) public affairs

• **Newspapers** (many are ProQuest newspapers)
Top Right: (1) Search tips; (2) ProQuest Platform Training videos; (3) LibGuides
Assistance searching the Library’s Databases

• For **ECE and GTRI and PMASE** one-on-one **in-depth and quick** database search assistance and group instruction, please **contact Bette Finn** ([bette.finn@library.gatech.edu](mailto:bette.finn@library.gatech.edu))

• For other schools, contact your **Subject Librarian** for assistance searching any of the Library’s **databases**. Every GT school has a Subject Librarian

• For circulation questions (check-out books, Recalls, etc.) – contact an associate in the Public Services area (Crosland Tower, Grove Level Ground Floor, Library Store) or phone 404-894-4530

• [All Research guides](#)
• [All Databases](#)