

SEARCHING FOR RESEARCH LITERATURE

ASTRO GRADUATE STUDENT SESSION



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ABOUT ME



- ❖ Librarian to Physics, Astronomy & Astrophysics, located in the Physics Library at McLennan Physical Labs
- ❖ What kind of things can I help you with?
 - ❖ Copyright questions
 - ❖ Accessing materials
 - ❖ Data management
 - ❖ Anything information related

LOCATING RESEARCH LITERATURE
IN ADS, ARXIV, SCOPUS AND
GOOGLE SCHOLAR

How to access databases

Finding items like research articles come in many forms, usually searchable via **databases**.

Today we'll look at a few of them that will be useful in astronomy.

Some are free, such as NASA Astrophysics Data System (NASA ADS, arXiv and of course, Google Scholar.

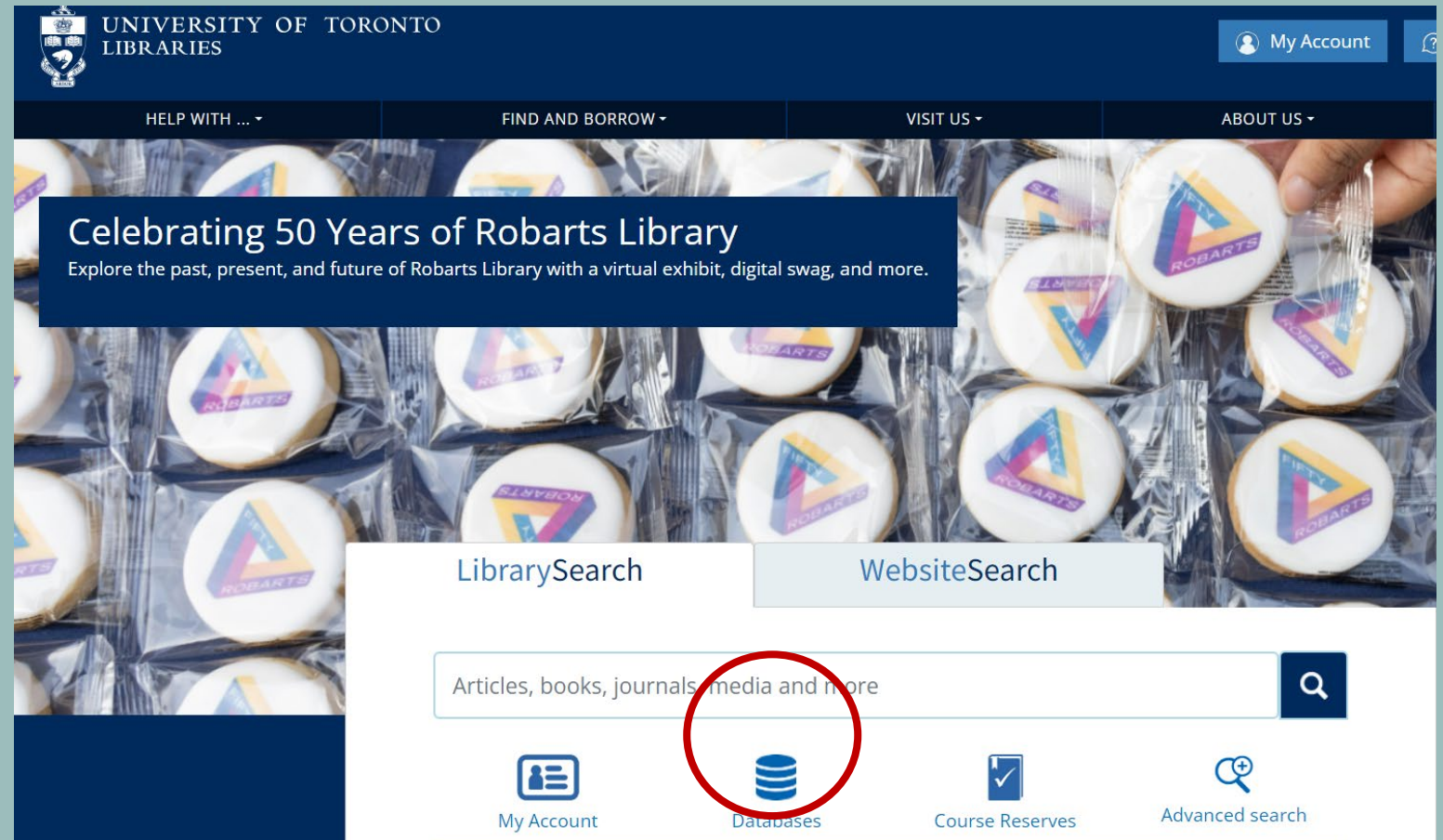
Others are via subscriptions that we pay for through the university's library system. The reasons we pay for access to these is because they are created and tailored specifically to make searching for peer-reviewed literature in the form of journal articles and conference papers easier for researchers.

Today we will be looking at Scopus, the largest multi-disciplinary database.

How to access databases

On the UofT Library Website, there is a link to all of the databases (both free and subscribed) that we have access to. Going to this page will give you a variety of ways to pick a database to use. You can filter by subject, all of them from A-Z, etc.

Today we'll be using Scopus, but Web of Science is another recommended database.



ACTIVITY AT POLLEV.COM/NLEE025



- Try searching for **compact star OR compact object** and let me know what are the number of results you get.
- Try again with quotation marks around them (**"compact star" OR "compact object"**) and give me the result numbers as well.
- Include the database used.

Free searching for compact star or compact object

Scopus

Welcome to a more intuitive and efficient search experience. [See what is new](#)

Search within: Article title, Abstract, Keywords

Search documents: compact AND star

OR

Search within: Article title, Abstract, Keywords

Search documents: compact AND object

+ Add search field

Reset Search

Documents **Beta** Preprints Patents Secondary documents Research data

33,168 documents found

Refine search

Search within results

Filters

Year

Document title

Authors

Source

Year

Citations

1 Article - Open access

Equivariant Z/ℓ -modules for the cyclic group C_2

Dugger, D., Hazel, C., May, C.

Journal of Pure and Applied Algebra, 228(3), 107473

2024

0

Show abstract

Full Text

Related documents

ads

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

compact star OR compact object

Your search returned **25,675 results**

Start New Search

AUTHORS

Kalogera, V 119

Zhang, Y 108

Tomsick, J 101

Belczynski, K 99

Show highlights Show abstracts Hide Sidebars

2024OptLT.16909915P 2024/02

A compact optical sensor for risk assessment from high-power laser s

Peckhaus, Andreas; Elsässer, Fabian; Backfisch, Stefan and 2 more

arXiv

Showing **150 of 17,728 results**

Query: order: -announced_date_first; size: 50; include_cross_list: True; terms: AND all=compact star; OR all=compact object

Refine query New search

50 results per page. Sort results by Announcement date (newest first) Go

1 2 3 4 5 ...

1. arXiv:2310.02878 [pdf, other] astro-ph.SR

A Database of Magnetic and Thermodynamic Properties of Confined And Eruptive Sol

Authors: Maria D. Kazachenko

Abstract: Solar flares sometimes lead to coronal mass ejections that directly affect the Earth's environment. H solar-type **stars**, are confined flares. What are the differences in physical properties between confined and ert thermodynamic and magnetic properties of hundreds... [More](#)

Submitted 4 October, 2023; originally announced October 2023.

Comments: 18 pages, 8 figures, accepted for publication to The Astrophysical Journal

Google Scholar

compact star OR compact object

Articles

About 4,440,000 results (0.1 sec)

Any time

Since 2023

Since 2022

Since 2019

Custom range...

Sort by relevance

Sort by date

Any type

Review articles

[HTML] Rates of **compact object** coalescences

[I Mandel](#), [FS Broekgaarden](#) - Living Reviews in Relativity, 2022 - Springer

... binaries composed of two **compact objects**—neutron stars and/... sophisticated models of **compact objects** merging through a ... theoretical knowledge of **compact**-binary coalescence rates. ...

☆ Save Cite Cited by 119 Related articles All 11 versions Web of Science: 80

Compact object modeling with the StarTrack population synthesis code

[K Belczynski](#), [V Kalogera](#), [FA Rasio](#) ... - The Astrophysical ..., 2008 - iopscience.iop.org

... of **compact objects** (white dwarfs, neutron stars, and black holes). Both single and binary **star** ... , black holes in young **star** clusters, Type Ia supernova progenitors, and double compact ...

☆ Save Cite Cited by 769 Related articles All 16 versions Web of Science: 556

Searching with quotation marks to keep the terms together (“compact star” OR “compact object”)

Scopus

Welcome to a more intuitive and efficient search experience. [See what is new](#)

Search within: Article title, Abstract, Keywords

Search documents: "compact star"

OR

Search within: Article title, Abstract, Keywords

Search documents: "compact object"

+ Add search field

Reset Search

Documents Preprints Patents Secondary documents Research data

8,732 documents found

Refine search

Search within results

Filters

Year

Document title

Authors

Source

Year

Citations

1. Article - Open access

1. Equivariant Z/ℓ -modules for the cyclic group C_2

Dugger, D., Hazel, C., May, C.

Journal of Pure and Applied Algebra, 228(3), 107473

2024

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ads

QUICK FIELD: Author First Author Abstract Year Fulltext All Search Terms

Start New Search

abs:"compact star" OR "compact object"

our search returned 15,165 results

Show highlights Show abstracts Hide Sidebars

Go To Bottom

AUTHORS

Kalogera, V 110

Blaschke, D 108

Maurya, S 104

Tomsick, J 101

Belczynski, K 98

more

COLLECTIONS

2024NewA..10502113R 2024/01

Relativistic isotropic stellar model in $f(R, T)$ gravity with Durgapal- IV metric

Rej, Pramit; Bhar, Piyali

2023PDU....4201324S 2023/12

Effects of charge and gravitational decoupling on complexity and isotropization of anisotropic models

Sharif, M.; Naseer, Tayyab

arXiv

Showing 1–50 of 6,773 results

Query: order: -announced_date_first; size: 50; include_cross_list: True; terms: AND all="compact star"; OR all="compact object"

Refine query New search

50 results per page. Sort results by Announcement date (newest first) Go

1. arXiv:2310.02685 [pdf, ps, other] nucl-th

Coupling strength induced BCS-BEC crossover on phase boundary of pion superfluid

Authors: Zhiyang Liu, Shijun Mao

Abstract: ...changes the bulk properties of quark matter. In strong (weak) coupling cases, the EoS of quark matter at finite (soft). Therefore, the compact stars composed of strong (weak) coupling pion superfluid quark matter has a heavier (lighter) radius. More

Submitted 4 October, 2023; originally announced October 2023.

Google Scholar

"compact star" OR "compact object"

Articles About 17,700 results (0.09 sec)

Any time

Since 2023

Since 2022

Since 2019

Custom range...

Sort by relevance

Sort by date

Any type

Review articles

include patents

include citations

Create alert

[HTML] Rates of compact object coalescences

L Mandel, FS Broekgaarden - Living Reviews in Relativity, 2022 - Springer

Gravitational-wave detections are enabling measurements of the rate of coalescences of binaries composed of two compact objects—neutron stars and/or black holes. The coalescence ...

☆ Save Cite Cited by 119 Related articles All 11 versions Web of Science: 80

Compact object modeling with the StarTrack population synthesis code

K Belczynski, V Kalogera, FA Rasio - The Astrophysical Journal, 2008 - iopscience.iop.org

We present a comprehensive description of the population synthesis code StarTrack. The original code has been significantly modified and updated. Special emphasis is placed here ...

☆ Save Cite Cited by 769 Related articles All 16 versions Web of Science: 556

How does a dark compact object ringdown?

E Maggio, L Buoninfante, A Mazumdar, P Pani - Physical Review D, 2020 - APS

... of the ringdown of a compact object with various shades of darkness. By extending the black-hole membrane paradigm, we map the interior of any compact object in terms of the bulk ...

☆ Save Cite Cited by 70 Related articles All 11 versions Web of Science: 48

[HTML] springer Get full text

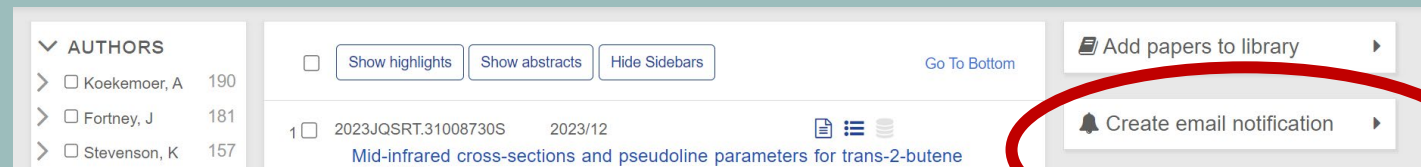
[PDF] iop.org Full View

[PDF] aps.org Get full text

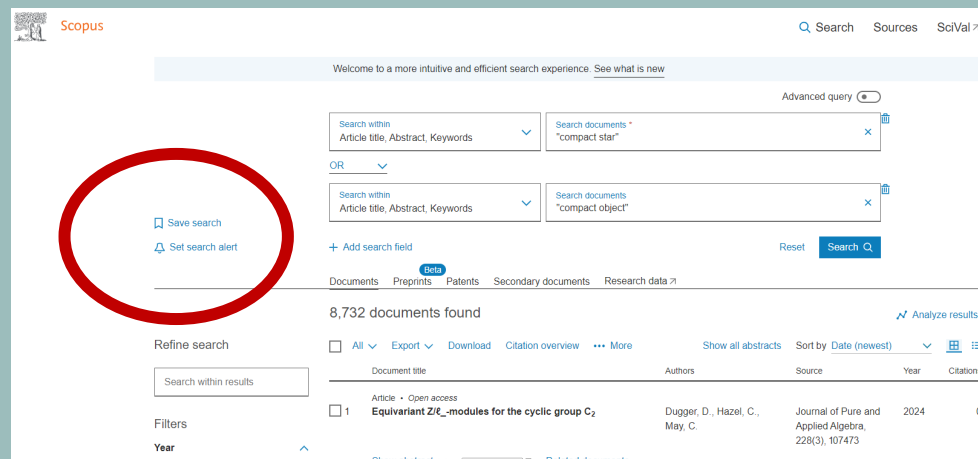
Newest publications alerts

In arXiv: How to sign up for personalized email alerts

In NASA ADS, there is a “Create email notification” option on the right side of your search results.



In databases like Scopus or Web of Science, you will see the option to save your search or set an alert for new publications that fit your search parameters.



Google
Scholar with
UofT
subscription
access (off-
campus)

Go to the Setting of your Google Scholar page and look for “Library Links”

Search for University of Toronto in the search bar, and when you search look for the box that says “University of Toronto Libraries – Get Full Text” and make sure it’s checked off. When you save it will then give you all search results with the UofT subscription access while you use it off-campus.

(see next slide)

Search results

Languages

Library links

Account

Button

Show library access links for (choose up to five libraries):



e.g., *Harvard*

- ☒ Canadian National Catalogue - Find in AMICUS
- ☐ University of Toronto Libraries - Get full text
- ☐ Toronto Metropolitan University - Check TMU Libraries
- ☐ University Health Network Libraries - Find It @ UHN Libraries
- ☐ University Health Network Libraries - Find It @ UHN Libraries

Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library's website or ask a local librarian for assistance.

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[HTTPS://ONESEARCH.LIBRARY.UTORONTO.CA/](https://onesearch.library.utoronto.ca/)

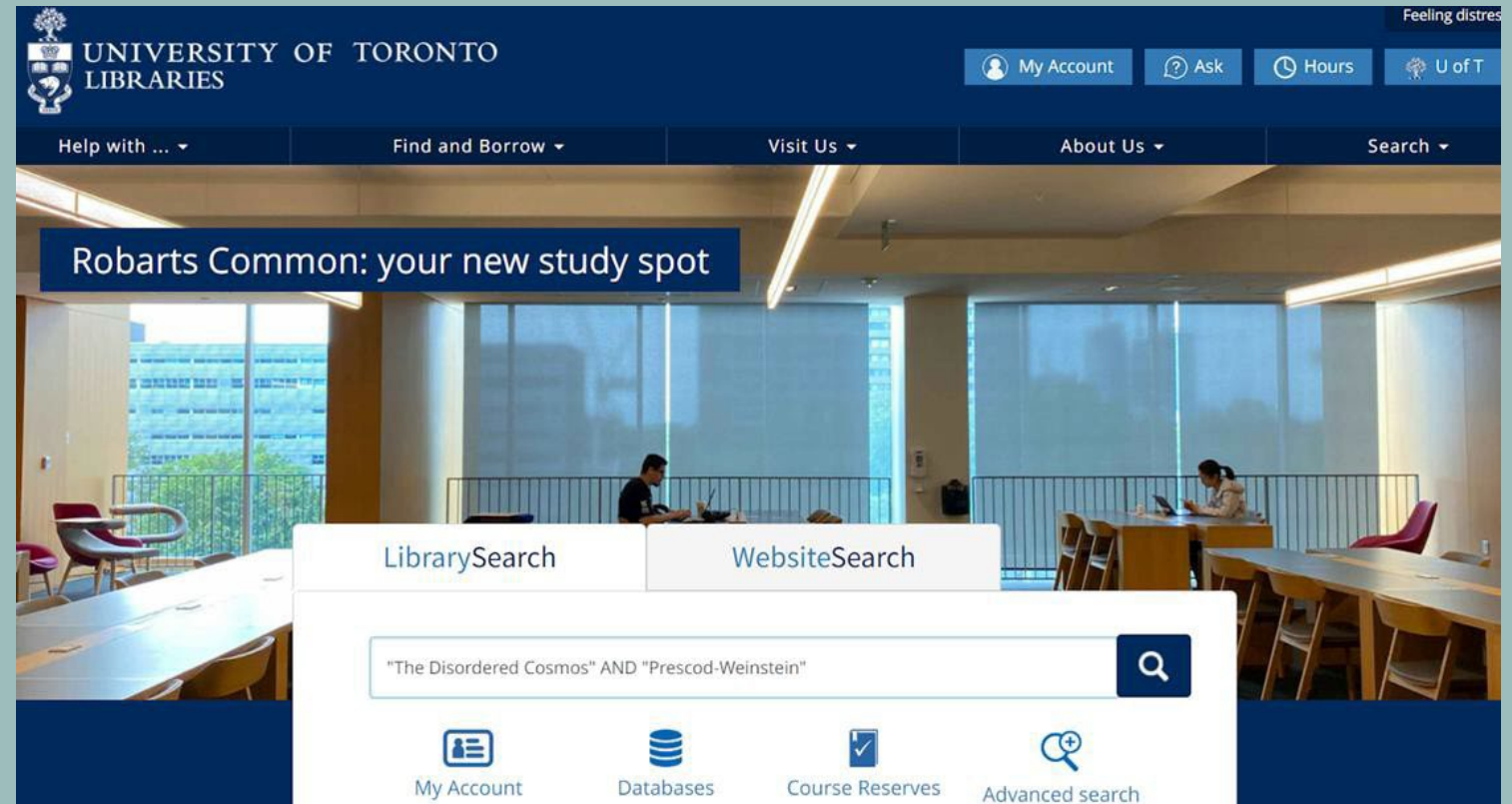
OR GOOGLE SEARCH UOFT LIBRARY

HOW TO FIND A SPECIFIC BOOK/ITEM AT UOFT

The best method to find a book is the **exact title and author surname**. If the patron only has the title or author, it might be a harder search. In that case try Googling the book first to find the title and author.

Example: Looking for *The Disordered Cosmos* by Chanda Prescod-Weinstein

You can search on the library website's main search bar.
Search the title in quotation marks ("") and if you have an author, put AND in capital letters to combine both to try to get a specific search result.



Using Interlibrary Loan/

Borrow from other institutions

There may be instances that the article or book you're looking for is not in our library system.

Universities worldwide have a program where we share our resources with each other.

If the item you're looking for is not present at UofT, we can ask for borrow from the next closest institution that carries it.

Depending on the item, the method of delivery and time of delivery will vary.

Journal articles that are accessible online will be sent to your email as a PDF usually within a week.

If you're looking for something in print like a book, it may take up to 3 weeks depending on what country the item is coming from.

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Using the Library website, try finding out if we have access to the thesis

"Magnetohydrodynamic Shocks in Molecular Clouds" by David F. Chernoff,
published in 1985.

Do we have access to it? Where is it from?

INTERLIBRARY LOAN

Example: We're trying to find a thesis titled "Magnetohydrodynamic Shocks in Molecular Clouds" by David F. Chernoff printed in 1985.

Pay attention to this one, as the author wrote an article of the same title AFTER he completed his thesis. Try not to mistake the type of publication when searching for the title in question.

Here it shows that we have access to the ARTICLE, not the thesis.

The screenshot displays the University of Toronto LibrarySearch homepage. The search bar contains the query "Magnetohydrodynamic Shocks in Molecular Clouds" AND CF. The search results show one article from "The Astrophysical Journal" by David F. Chernoff, published in 1987. The article is available online and can be downloaded as a PDF. The interface includes navigation links for New Search, Databases, Journals, Interlibrary Loan, Newspapers, and Browse. A yellow banner at the top indicates that the email record feature is currently not available. The bottom of the page shows the results per page setting set to 10.

UNIVERSITY OF TORONTO LIBRARIES | LibrarySearch

New Search Databases Journals Interlibrary Loan Newspapers Browse

"Magnetohydrodynamic Shocks in Molecular Clouds" AND CF Everything All Libraries Advanced Search

All items

The email a record feature is currently not available. Please sign in to save searches or see request options. Sign In Need help? DISMISS

Filter your results

0 selected 1 Results

Expand results beyond Library collection

Search in Full Text

ARTICLE

MAGNETOHYDRODYNAMIC SHOCKS IN MOLECULAR CLOUDS

CHERNOFF, DF

The Astrophysical journal, 1987, Vol.312 (1), p.143-169; CHICAGO: Univ Chicago Press

Download PDF Available Online

Newspapers search

These search results do not include newspapers. View results from our entire collection of newspapers, or search specifically within Featured newspapers.

Results Per Page 10 25 50

Report a problem

INTERLIBRARY LOAN

Next, to find out if another university has the thesis available, we're going to toggle on **"Expand results beyond Library collection"** found on the left-hand side of the page.

Here we see that results #2 is the thesis we're looking for.

The screenshot shows a library search interface. At the top, the search bar contains the query "Magnetohydrodynamic Shocks in Molecular Clouds" AND Chernoff. Below the search bar, there are filters for "Everything", "All Libraries", and an "Advanced Search" link. A yellow banner indicates that the email alert feature is currently not available. The left sidebar contains filters for "Filter your results", "Expand results beyond Library collection" (which is toggled on), "Search in Full Text", "Sort by Relevance", "Show Only" (with options for Online, Articles, and Theses), and "Subject" (with options for Astronomy and Physics). The main results area displays three items. Item 1 is an article titled "MAGNETOHYDRODYNAMIC SHOCKS IN MOLECULAR CLOUDS" by Chernoff, D.F., published in the Astrophysical Journal in 1987. Item 2 is a thesis titled "Magnetohydrodynamic shocks in molecular clouds" by Chernoff, D.F., from the University of California, Berkeley, CA, published in 1985. Item 3 is another article titled "Magnetohydrodynamic shocks in molecular clouds" by Chernoff, D.F., published in the Astrophysical Journal in 1987.

Search results for "Magnetohydrodynamic Shocks in Molecular Clouds" AND Chernoff

Filter your results

- ☒ Expand results beyond Library collection
- ☐ Search in Full Text
- Sort by: Relevance
- Show Only:
 - ☐ Online
 - ☐ Articles (3)
 - ☐ Theses (2)
- Newspapers Search
- Subject:
 - ☐ Astronomy (2)
 - ☐ Physics (2)

0 selected 5 Results

1. **ARTICLE**
MAGNETOHYDRODYNAMIC SHOCKS IN MOLECULAR CLOUDS
CHERNOFF, DF
Astrophys. J.; (United States), 1987, Vol.312 (1), p.143-169; CHICAGO: Univ Chicago Press
Download PDF Available Online

2. **THESIS**
Magnetohydrodynamic shocks in molecular clouds
Chernoff, D.F.
United States: Univ. of California, Berkeley, CA
1985
No Online Access

3. **ARTICLE**
Magnetohydrodynamic shocks in molecular clouds
CHERNOFF, DF
Astrophys. J.; (United States), 1987, Vol.312 (1), p.143-169; CHICAGO: Univ Chicago Press

INTERLIBRARY LOAN

When you click on the thesis, you will see a pop-up showing that we do not have this thesis for access at our university.

Instead, it gives you the option, **The library does not have this book? Request is via interlibrary loan”**

If you click this link, it will direct you to a form which you fill out and submit, which will send a request to the central library system

THESIS

Magnetohydrodynamic shocks in molecular clouds

Chernoff, D.F

United States: Univ. of California,Berkeley, CA

1985

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How To Get It

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RefWorks

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E-BOOKS

If you scroll down the main library page, you will see our e-book collection linked in the bottom-left corner.

Click on the "More eBooks collections" link to see our full list.

The screenshot shows the University of Toronto Libraries website. A yellow circle highlights the 'Online Books' section, which includes a link to 'More eBooks collections' at the bottom. The 'Online Books' section is titled 'Places to find eBooks' and lists several resources: Library Catalogue Online Books, U of T Books on Internet Archive, Scholars Portal Books, JStor Books, Elsevier Science Direct, and Springer. Other sections visible on the page include 'Course reserves', 'Wifi | computers', 'Print, copy, scan', 'Copyright and syllabus services', 'Workshops', 'Support the Libraries', and 'UTL News'.

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Support for course readings, syllabi, publishing, and open access.

UTL News University of Toronto Libraries' statement on National Truth and Reconciliation Day
More news

Online Books

Places to find eBooks

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JStor Books Elsevier Science Direct Springer

Workshops

Introduction to the Engineering & Computer Science Library Supports & Services (geared for grad students but all are welcome)
Friday, September 9, 2022
12:10pm - 12:45pm
Online

Introduction to the Engineering & Computer Science Library Supports & Services (geared for grad students but all are welcome)
Tuesday, September 13, 2022
12:10pm - 12:45pm
Engineering Library

Graduate student library orientation
Monday, September 12, 2022
1:00pm - 1:45pm
Online

Research and Writing Seminar: Critical Reading
Monday, September 19, 2022
2:00pm - 4:00pm
Online

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Help the University of Toronto Libraries in our mission to strengthen our outstanding collections, transform our accessible study spaces, and offer innovative research services.
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Robarts Common

<https://onsearch.library.utoronto.ca/iu-baris-common/home>

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Some of these are geared toward the sciences, while others may be geared to humanities/social sciences or multidisciplinary.

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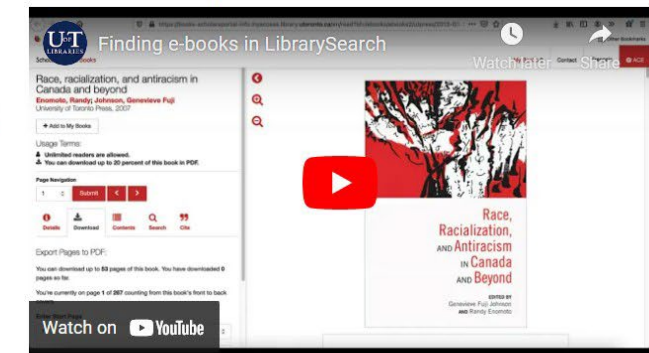
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 - <https://onesearch.library.utoronto.ca/>