



Обратные и некорректные задачи в экспериментальной физике

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www.itam.nsc.ru/lab17/



- Обратные и некорректные задачи. Примеры и методы решения. Интегральные уравнения первого рода. Дифференцирование зашумленных данных. Регуляризованные сглаживающие сплайны. Сглаживание и гладкие аппроксимации. Обращение плохо обусловленных матриц. Суммирование Фурье-рядов для экспериментальных сигналов. Томография плазмы как пример некорректной задачи.





-- Поиск научной информации в электронных библиотеках:
ИТПМ, ScienceDirect, Google Scholar, Google Books,
CiteULike, мехмат МГУ.

[Томограмма](#)

Группа Вычислительной томографии, Институт теоретической и прикладной механики, Новосибирск, Россия

[Разработка алгоритмов, дистанционная томография]
[Консультации по обработке томограмм, трехмерной визуализации]
Программное обеспечение томографии:
Пакет [TOPAS-Micro](#)

[Синограмма](#)**Обновления:**

[\(2009-2005\)](#) [\(2004\)](#) [\(2003\)](#) [\(2002\)](#) [\(2001\)](#) [\(2000\)](#) [\(1999\)](#) [\(1998\)](#) [\(1997\)](#) [\(1996\)](#)

[Томография плазмы](#)
[Томография в медицине](#)
Промышленная [томография](#)

Руководитель группы

[Пикалов Валерий Владимирович, д.ф.-м.н.](#)

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● [Состав группы](#)● [Другая деятельность](#)

Симпозиумы по вычислительной томографии
1983-1993 годы

● [Области исследований](#)● [Презентации](#)● [Наше международное сотрудничество](#)[и проекты](#)

● Публикации группы (с 1991)

[2009](#), [2008](#), [2007](#), [2006](#), [2005](#), [2004](#), [2003](#), [2002](#), [2001](#), [2000](#), [1999](#), [1998](#), [1997](#), [1996](#),
[1995](#), [1994](#), [1993](#), [1992](#), [1991](#)

● Выступления на семинарах и конференциях

[2008](#), [2007](#), [2006](#), [2005](#), [2004](#), [2003](#), [2002](#), [2001](#), [2000](#), [1999](#), [1998](#), [1997](#), [1996](#)

● [Избранные адреса и документы по томографии](#)● [Списки конференций](#)● [English-Russian dictionary on Computerized Tomography](#)

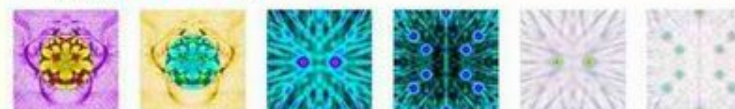
(Win1251)

● [Уголок разработчика](#)

[Томографические программы] [Компиляторы]
[Трехмерная визуализация] [Графика] [Утилиты]

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Tomography Art Gallery



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[Томографические программы] [Компиляторы]
[Трёхмерная визуализация] [Графика] [Утилиты]

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(алгоритмы томографии, обратные задачи, вэйвлеты, обработка сигналов и изображений, биоинформатика, медицинские изображения и т.л.)

Реферативные базы данных по томографической литературе и смежным вопросам в научных социальных сетях:

[CiteULike](#) [более 1000 ссылок],

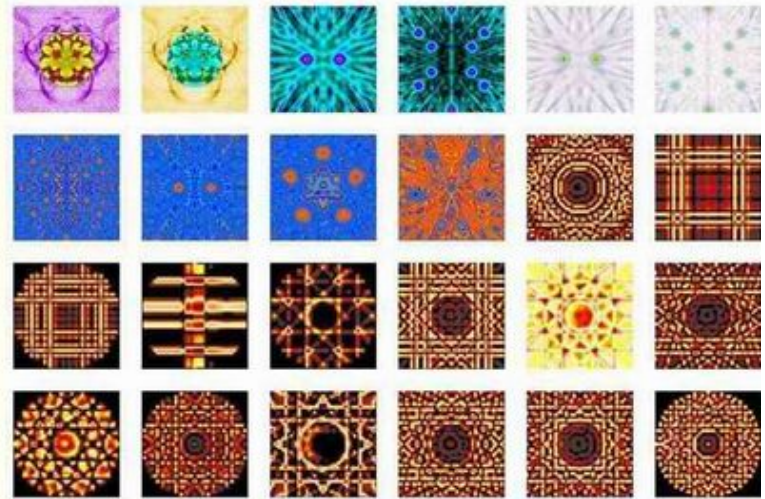
[Connotea](#) (Nature Publ. Group),

[VibSonomy](#) (University of Kassel, Germany),

[ResearcherID.com](#) (Thomson Scientific),

[2Collab](#) (Elsevier)

Tomography Art Gallery



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Поиск по сайту (Яндекс):

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С 5-го января 1997 года:

You are 9584 visitor of this page.

[Statistics](#)

Страница начата 23 апреля 1996 года



[Bibliography Data Base](#), > 7100 records

(tomography algorithms, inverse problems, wavelets, signal and image processing, neural networks, etc.)

Bibliographic databases on tomography (and other problems) in the scientific social networks:

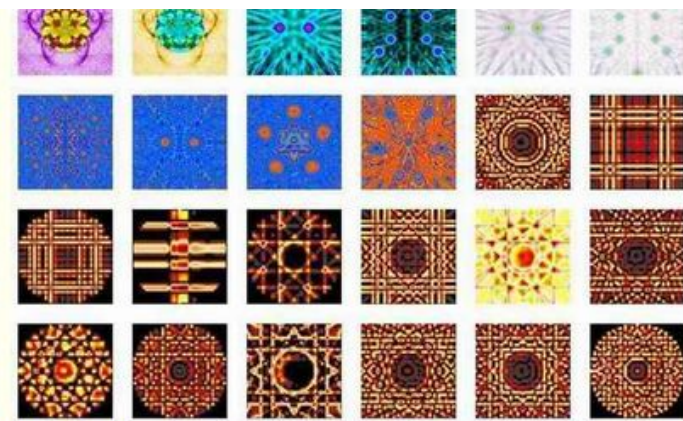
[CiteULike](#) [more than 1000 records and links],

[Comnotea](#) (Nature Publ. Group),

[BibSonomy](#) (University of Kassel, Germany),

[ResearcherID.com](#) (Thomson Scientific),

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Page designed on 23 Apr, 1996

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Электронные информационные ресурсы

- GoogleScholar: <http://scholar.google.com>
- GoogleBooks: <http://books.google.com>
- Scopus: <http://scopus.com>
- CiteULike : <http://www.citeulike.org/home>
- ИТПИМ СО РАН: <http://www.itam.nsc.ru/users/libr>
- Реферативная БД по томографии и обратным задачам, ИТПИМ СО РАН:
http://www.itam.nsc.ru/lab17/dBase/show_bib.php

Порталы издательств – цифровые библиотеки

- ACM (Association for Computing Machinery): <http://portal.acm.org>
- AMS (American Mathematical Society): <http://www.ams.org/journals>
- APS (American Physical Society): <http://publish.aps.org>
- OSA (Optical Society of America): <http://www.opticsinfobase.org>
- SPIE (The International Society for Optical Engineering):
<http://www.spiedigitallibrary.org>
- Institute of Physics (UK): <http://www.iop.org/EJ>
- ScienceDirect (Elsiever): <http://www.sciencedirect.com>
- [Springer](http://www.springerlink.com): <http://www.springerlink.com>



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- Ученый совет
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- Конференции
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- Сотрудники
- Информация для сотрудников
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- Вакансии



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РОССИЯ 630090, Новосибирск,
ул. Институтская, 4/1
Телефон: (383) 330-42-68
Факс: (383) 330-72-68
Эл. почта: admin@itam.nsc.ru

НОВОСТИ

[Архив новостей](#)

Защиты диссертаций

ДИССЕРТАЦИОННЫЙ СОВЕТ Д 003.036.02 ОБЪЯВЛЯЕТ О ЗАЩИТАХ ДИССЕРТАЦИЙ

27 февраля 2009 г., 10:00 - Защита диссертации Юдиным Петром Владимировичем на тему: "Экспериментальное моделирование динамики вспомогательного газа и механизмов удаления расплава при лазерной резке металлов" на соискание ученой степени кандидата физико-математических.

27 февраля 2009 г., 14:00 - Защита диссертации Яковлевым Владимиром Ивановичем на тему: "Энергообмен в сверхзвуковых газоплазменных течениях" на соискание ученой степени доктора физико-математических наук.

ЗАЩИТА СОСТОИТСЯ В КОНФЕРЕНЦ-ЗАЛЕ ИТПМ
С ДИССЕРТАЦИЯМИ МОЖНО ОЗНАКОМИТЬСЯ В БИБЛИОТЕКЕ ИНСТИТУТА

[Подробнее](#)

Дата публикации: 27.01.2009

Открыт доступ к ресурсам Оптического общества Америки (OSA).

В ИТПМ открыт доступ к полным текстам всех ресурсов (журналов и конференций) международного общества OSA (Оптического общества Америки). Список журналов:

J. Opt. Soc. Am. A, J. Opt. Soc. Am. B,
Applied Optics, Optics Letters,

Поиск:

Найти!

Новости

Архив новостей (2006-2008)

11.02.2008 Открыт доступ к полнотекстовым электронным журналам Royal Society Publishing
Список журналов: Royal Society Publishing

01.02.2008 Открыт доступ к полнотекстовым электронным журналам Taylor & Francis
Список журналов: InformaWorld.com

19.10.2007
Появился новый физический журнал с открытым доступом к полным текстам:
PMC Physics A
=>Далее...

Публикации ИТПМ и электронный каталог

(более 13 200 записей, полный каталог книжных поступлений начиная с 1985 года,
и частичный - с 1925 года)

правила подачи списков литературы для их ввода в электронный каталог ИТПМ]

Списки новых поступлений за 2009 год

| | | |
|--|--|--------------------|
| | | ● 27.04-08.05.2009 |
| | | ● 13.04-24.04.2009 |
| | | ● 30.03-10.04.2009 |
| | | ● 16.03-27.03.2009 |
| | | ● 02.03-13.03.2009 |
| | | ● 16.02-27.02.2009 |
| | | ● 02.02-13.02.2009 |
| | | ● 19.01-30.01.2009 |

Списки поступлений за 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 годы

Каталог журналов ИТПМ

Отечественные журналы: А В Г Д Е Ж З И К Л М Н О П Р С Т У Ф Х Ц Ч Ш Э Ю Я

Иностранные журналы: А В С D E F G H I J K L M N O P Q R S T U V W X Y Z

правила использования электронных ресурсов: категорически **запрещается** сплошное скачивание отдельных выпусков журналов; применение для этого программных средств; пересылка статей по электронной почте в адрес сотрудников других институтов.

Журналы с полнотекстовым доступом для сотрудников ИТПМ
 Перед вызовом линка для **ИМПАКТ-ФАКТОРА ISI** надо установить сессию с JCR и выбрать год: 2005 - 2007; на странице с импакт-фактором нажмите кнопку 'impact factor trend' для его выдачи за последние 5 лет.

Обозначения: IF-05, IF-06, IF-07 - импакт-факторы ISI за 2005 - 2007 годы, [IF5] - средний импакт-фактор за 5 лет: 2002-2006 (или 2003-2007) гг. (в скобках - предыдущее среднее).

| Журнал | Издательство | IF-07 | IF-06 | IF-05 | [IF5] |
|---|----------------------|-------|-------|-------|------------------|
| 01. Combustion, Explosion, and Shock Waves (перевод журнала ФТВ) | Springer | 0.530 | 0.358 | 0.274 | 0.337 (0.337) |
| 02. Cosmic Research (перевод журнала "Космические исследования") | Springer | 0.368 | 0.283 | 0.467 | 0.351 (0.341) |
| 03. Doklady Physics (перевод Докл. РАН, раздел Физика) | Springer | 0.257 | 0.255 | 0.283 | 0.274 (0.276) |
| 04. Experiments in Fluids (1983 -) | Springer | 1.259 | 1.112 | 1.062 | 1.008 (0.941) |
| 05. Fluid Dynamics (перевод журнала "Механика жидкости и газа") | Springer | -- | -- | -- | -- |
| 06. High Temperature (перевод журнала "Термофизика высоких температур") | Springer | 0.332 | 0.198 | 0.302 | 0.332 (0.336) |
| 07. Inverse Problems | Inst. of Phys. Publ. | 1.854 | 1.319 | 1.541 | 1.464 (1.324) |

- С 10 декабря вновь открыты журналы и конференции международного компьютерного общества ACM (вычислительная математика, компьютерные науки). Вход в цифровую библиотеку для сотрудников ИТПМ [ЗДЕСЬ](#).
- С 10 октября 2008 года открыт доступ к издательству SPIE - SOC. PHOTOPTICAL INSTRUMENTATION ENGINEERS - доступны не только журналы, но и труды конференций, Proceedings of SPIE, начиная с тома 1200.
- Доступные в ИТПМ СО РАН журналы Американского института физики (на 2008 год)
- Доступные журналы издательства Taylor & Francis
- Общероссийский математический портал: MathNet.ru
- JCR - Journal Citation Report - Импакт-фактор (индекс цитирования) журналов Института научной информации (ISI, Филадельфия, США), есть

Принимаются заказы по МБА:

С 16.07.2008 Большая часть журналов издательства Taylor & Francis стали доступны в ИТПМ (см. список)

| Журнал | Издательство | IF-07 | IF-06 | IF-05 | [IF5] |
|--|---|-------|-------|-------|------------------|
| 01. AIAA Journal | AIAA | 0.988 | 0.970 | 0.792 | 0.893 |
| 02. Applied Optics | OSA | 1.701 | 1.717 | 1.637 | 1.640 |
| 03. Computing in Science and Engineering | American Institute of Physics and the IEEE Computer Society | 0.704 | 0.862 | 0.698 | 0.803 |
| 04. IEEE Computer Graphics and Applications | IEEE | 1.398 | 1.429 | 1.152 | 1.457 |
| 05. IEEE Transactions on Visualization and Computer Graphics | IEEE | 1.600 | 1.794 | 1.457 | 1.688 |
| 06. IEEE Transactions on Knowledge & Data Engineering | IEEE | 1.896 | 2.063 | 1.758 | 1.468 |
| 07. IEEE Transactions on Pattern Analysis & Machine Intelligence | IEEE | 3.579 | 4.306 | 3.810 | 3.843 |
| 08. IEEE Transactions on Medical Imaging | IEEE | 3.275 | 3.757 | 3.939 | 3.730 (3.657) |
| 09. IEEE Transactions on ... | | | | | 2.321 |

➤ **Дополнительный** список журналов по физике и математике (для расчетов ПРНД), **некоторые из них открыты для ИТПМ!**

- H-index - как считать персональный импакт-фактор ученого.
- ГОСТ Р.7.0.5-2008 "Библиографическая ссылка" (2.22 Mb), вводится с 1-го января 2009 года. Исходник полного текста на сайте: **НАЦИОНАЛЬНЫЕ СТАНДАРТЫ**.

Подробнее о доступных журналах ... и вычислениях ПРНД

Отделение ГИИТБ СО РАН в Академгородке

ГИИТБ СО РАН (город)

Новосибирская областная научная библиотека

Российская государственная библиотека

ГИИТБ России

еще поисковые системы...

- **Библиографическая база данных ИТПМ СО РАН** (более 7000 записей) по обратным задачам в физических исследованиях, по обработке сигналов и изображений (вэйвлеты, томография и др.)
- **The Collection of Computer Science Bibliographies**
- **DOAJ - Directory of Open Access Journals**

Поисковые системы

- **American Institute of Aeronautics and Astronautics (AIAA) Electronic library**, search over four decades of technical information (без абстрактов). **Ingenta**, показывает содержание журнала AIAA Journal вместе с абстрактами за 1997-2004 годы (тома 35-42).
- **Web of Science** - поиск по ключевым словам, а также цитированной заданной фамилии автора (с 1975 года).
- **Google Scholar**: Поиск по научным публикациям: с указанием числа цитированной и выдачей списка цитирующих работ.
- **Google Book Search**: Поиск по книжным публикациям. Показывается страница книги с заданной при поиске фамилией или ключевым словом, доступны страница до и страница после. Кроме того, обычно доступны рекламные материалы по книге: обложка, предисловие, оглавление, поиск на издательство и т.п. Иногда доступна вся книга (нужна бесплатная регистрация на Google).
- **SCIRUS Search**: поиск по научной информации. Scirus searches

Электронные библиотеки



- **Научная электронная библиотека (РФФИ)**, доступ после бесплатной регистрации.

- **ACM Digital Library** - все журналы и конференции общества ACM (Computer science, вычислительные науки).
- **arXiv** (свободный доступ, препринты по физике и математике).
- **IEEE Xplore (electrical engineering, computer science, and electronics)**.
- **ScienceDirect** is one of the largest online collections of published scientific research in the world. Produced by Elsevier it contains over 8.5 million articles from over 2000 journals.
- **JSTOR** (short for Journal Storage) is a United States-based online system for archiving academic journals, founded in 1995. It provides full-text searches of digitized back issues of several hundred well-known journals, dating back to 1665 in the case of the Philosophical Transactions. (Wikipedia)

user=

IP: [192.168.65.111];

[Список всех видов работ с базами данных](#)

[Показ каталога новых поступлений](#)

Редактирование электронного каталога библиотеки ИТЦМ (книжный фонд и список публикаций сотрудников ИТЦМ)

Время: Thursday, 30th April, 2009; 11:35:21

[Реальное число записей в БД = 13295]

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(всего в каталоге: [13297 записей])

• **Результаты поиска Автора: [Фихтенгольц*]:**

| Найдено записей: [5] | | |
|--|----------------------|--|
| [select * from libr2 where YEAR1=1831 and YEAR1<=2009 and (AUTHOR LIKE '%Фихтенгольц%' or HEADER1 LIKE '%Фихтенгольц%' or AdDescript LIKE '%Фихтенгольц%' or KEY WORDS LIKE '%Фихтенгольц%') order by ib_id] | | |
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| 2. | С 14я76-1 Ф 658/2 | Фихтенгольц Г.М. Основы математического анализа : [Учеб. для вузов : В 2 т.] : Т.2. -СПб.: Лань, 2001. -464 с. [8 May, 2002 (No. 1033)] [Испр.: 13 April, 2004 11:46:16] |
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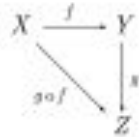
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С Н Андреев, В П Макаров, А А Рухадзе
Квантовая электроника, 39:1 (2009), 68–72

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М В Садовский
Успехи физических наук, 178:12 (2008), 1243–1271

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⇒ Динамическая модель кротовой норы и модель Мультивселенной

А. А. Шацкий, И. Д. Новиков, Н. С. Кардашев
Успехи физических наук, 178:5 (2008), 481–488

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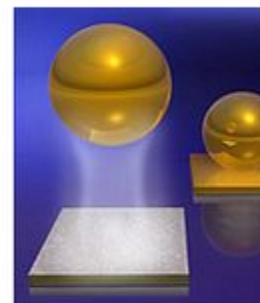
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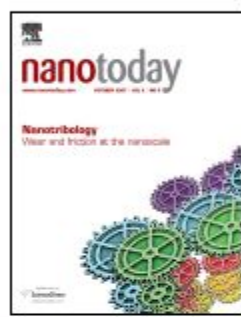
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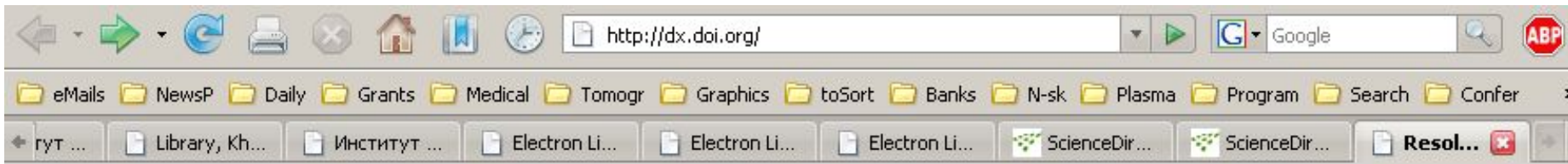
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(2007.09.20) В раздел [Учебные пособия по высшей математике и математической физике](#) добавлена новая методичка: [Семинары по высшей алгебре и аналитической геометрии.](#)(439 kb, pdf) Александрова Н.И. Новосибирск: НГУ, 2007. - 88 с.

(2007.09.01) Проект [Видеолекции Физического факультета НГУ](#) приостановлен. Продолжение проекта в следующем семестре. Записанные ранее в 2005-2007 годах лекции доступны в полном объеме в соответствующем разделе библиотеки.

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Раздел учебно-методических материалов представляет собой электронную библиотеку текстовых и видео учебных материалов по физике. Библиотека позволяет надежно накапливать, сохранять и эффективно использовать разнообразные коллекции электронных изданий и документов, доступные в удобном для пользователей виде. Предназначена она, прежде всего для студентов Физического факультета НГУ, но может быть полезна и студентам других естественных факультетов. Основное внимание уделено публикации учебных работ Физического факультета: учебников, учебно-методических пособий, конспектов лекций, задачников, лабораторных работ, видеозаписей

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В сентябре 2001 г. Физическому факультету НГУ исполнилось 40 лет. Несколько поколений преподавателей факультета выработали уникальный университетский курс физики. Цель данного проекта обеспечить доступ студентов НГУ к электронным версиям учебных пособий изданных за эти годы.

Ограничения

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07.09 Презентация совместного проекта компании Плеадес и Научной электронной библиотеки eLIBRARY.RU - "РУНЭБ - Российская универсальная научная электронная библиотека"

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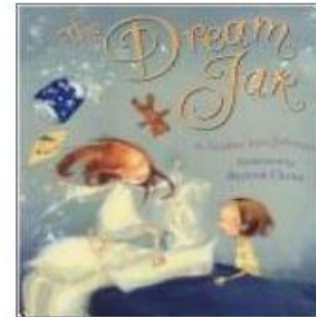
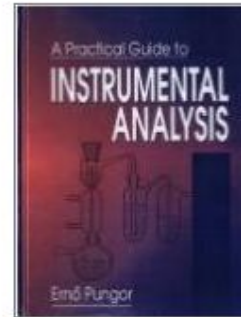
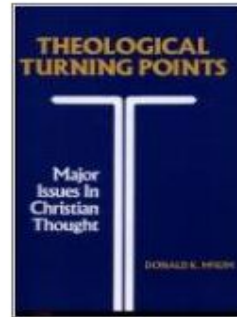
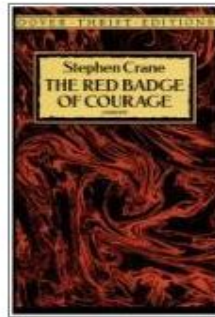
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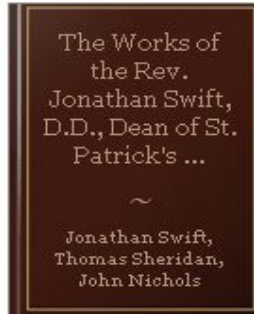
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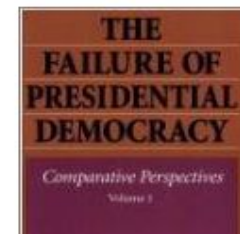
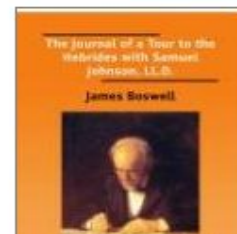
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- [Export library](#) as a BibTeX file
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What next?

BibTeX

You'll get a full BibTeX file (with extension .bib) from the download. You can use this just like you'd use any other BibTeX file. If that makes no sense, then it's time to read the [instructions](#).

EndNote

There's one extra step for Endnote:

- Export the library for import into Endnote using the link above.
- Open up Endnote, and choose "Import..." from the "File" menu.
- Set the "Import Options" to be "Reference Manager (RIS)"
- "Choose File..." to be the export file your browser saved from CiteULike. The filename will be *username.txt*, where *username* is your CiteULike username.

Note: You will almost certainly want to make a dry run using a empty Endnote Library and repeat until you're happy that it's doing what you want it to do. After that, you can let it loose on your real library.

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Radon Transform



The Radon transform is an [integral transform](#) whose inverse is used to reconstruct images from medical CT scans. A technique for using Radon transforms to reconstruct a map of a planet's polar regions using a spacecraft in a polar orbit has also been devised (Roulston and Muhleman 1997).

The Radon transform can be defined by

$$R(p, \tau)[f(x, y)] = \int_{-\infty}^{\infty} f(x, \tau + px) dx \tag{1}$$

$$= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x, y) \delta[y - (\tau + px)] dy dx \tag{2}$$

$$\equiv U(p, \tau), \tag{3}$$

where p is the [slope](#) of a line and τ is its intercept. The inverse Radon transform is

$$f(x, y) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \frac{d}{dp} H[U(p, y - px)] dp, \tag{4}$$

where H is a [Hilbert transform](#). The transform can also be defined by

$$R'(r, \alpha)[f(x, y)] = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x, y) \delta(r - x \cos \alpha - y \sin \alpha) dx dy, \tag{5}$$

where r is the [perpendicular distance](#) from a line to the origin and α is the [angle](#) formed by the distance [vector](#).

Using the identity

$$\mathcal{F}_{\omega\alpha}[R[f(\omega, \alpha)]](x, y) = \mathcal{F}_{uv}^2[f(u, v)](x, y), \tag{6}$$

where \mathcal{F} is the [Fourier transform](#), gives the inversion formula

$$f(x, y) = c \int_0^{\pi} \int_{-\infty}^{\infty} \mathcal{F}_{\omega\alpha}[R[f(\omega, \alpha)]] |\omega| e^{j\omega(x \cos \alpha + y \sin \alpha)} d\omega d\alpha. \tag{7}$$

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Abel's Lemma (*Wolfram MathWorld*)

The pure equation $x^p=C$ of prime degree p is irreducible over a field when C is a number of the field but not the p th power of an element of the field. [Jeffreys and Jeffreys ...](#)

Abel Prize (*Wolfram MathWorld*)

The Abel prize is a new mathematics prize of the Norwegian Academy of Science and Letters, dedicated to the memory of Niels Henrik Abel (1802-1829) on the occasion of the ...

Abel Polynomial (*Wolfram MathWorld*)

A polynomial $A_n(x;a)$ given by the associated Sheffer sequence with $f(t)=te^{at}$, (1) given by $A_n(x;a)=x(x-an)^{(n-1)}$. (2) The generating function is ...

Abel Transform (*Wolfram MathWorld*)

The following integral transform relationship, known as the Abel transform, exists between two functions $f(x)$ and $g(t)$ for ...

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1 [L- and \$\Theta\$ -curve approaches for the selection of regularization parameter in geophysical diffraction tomography](#)

[E. T. F. Santos](#), [A. Bassrei](#)

May 2007 **Computers & Geosciences**, Volume 33 Issue 5

Publisher: Pergamon Press, Inc.

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Since inverse problems are usually ill-posed it is necessary to use some method to reduce their deficiencies. The method that we choose is the regularization by derivative matrices. When a first derivative matrix is used the order is called the first. ...

Keywords: Θ -curve, Diffraction tomography, Inverse problems, L-curve, Regularization, Regularization parameter

2 [The information content of the scattered intensity in diffraction tomography](#)

[Greg Gbur](#), [Emil Wolf](#)

May 2004 **Information Sciences: an International Journal**, Volume 162 Issue 1

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3 [Generalized Fourier diffraction theorem for tomography](#)

[Natalie Baddour](#)

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