

# Literature Search

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Lukas Oehm, SLUB / 2. August 2012



# structure

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1. SLUB-catalog
2. databases
3. full-text search

# structure

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1. SLUB-catalog
  - overview
  - books/ e-books
  - SLUBsemantics
  - SLUB app
2. databases
3. full-text search

# 1 SLUB-catalog

## theory - types of literature

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### bibliographically independent works:

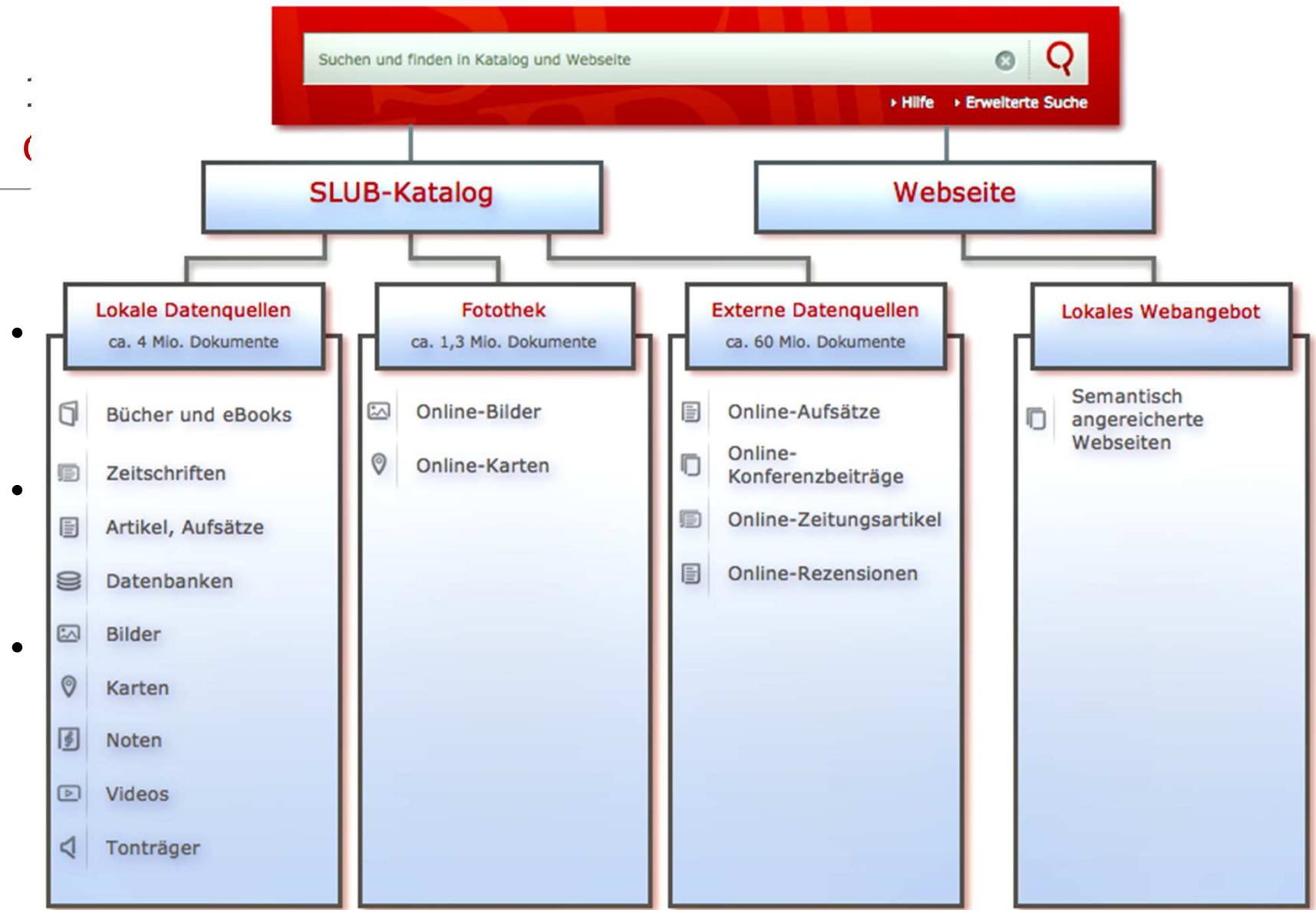
- books, e-books, journals, conference proceedings, CDs/ DVDs, ...
- example:
  - Treloar, L.R.G. : *The Physics of rubber elasticity*. Oxford University Press, 2009

→ search in library catalogs

### component parts of bibliographically independent works:

- articles in journals or conference proceedings, ...
- example:
  - Quate, Calvin F.: The Acoustic Microscope. In: *Sci. Am.* 241 (1979), Nr. 4, S. 58-66 (Artikel in einer Zeitschrift)

→ search in databases



# 1 SLUB-catalog

## books

- large bulk of media types gives a large score in the hit list

### How to find a book (print) in the SLUB-katalog?:

- Availability „available in the library“
- Resource Type „books“
- Collection „DrePunct“/ „Zentralbibliothek“

The image shows a sidebar titled "Refine My Results" with a help icon. It contains several filter categories, each with a dropdown arrow: "Add search terms" (with a search input field), "Availability", "Resource Type", "SLUBsemantics" (with a small icon), "Topic", "Subject", "Creator", "Creation Date" (with a date range slider set from 0 to 2013 and a "refine by year" button), "Language", and "Collection".

# 1 SLUB-catalog

## e-books

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- two different platforms:
  - purchased e-books (Springer, Hanser, Wiley)
  - Ebook Library EBL
- you can find e-books from both platform in the SLUB-catalog (EBL + Springer, etc.)
- purchased e-books:
  - e.g. Springer e-book package German
  - e.g. selected titles from publishers Hanser, Wiley (English + German)
  - no restrictions in copy or printing



# 1 SLUB-catalog

## e-books



- 200.000 available e-books per PDA (patron driven acquisition)
- free of charge for members of the SLUB
- restrictions:
  - up to 5 e-books/ day, which are read more than 5 min.
- copy and print
  - 20% print, 5 % copy of the whole title
- read offline
  - use Adobe Digital Editions (freeware)
  - same amount of copy and print as online



# 1 SLUB-catalog e-books

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## e-books in the hit list



Textile Werkstoffe für den Leichtbau / Techniken, Verfahren, Materialien, Eigenschaften  
Cherif, Chokri [Hrsg.] 2011

book (print)



Textile Werkstoffe für den Leichtbau / Techniken - Verfahren - Materialien - Eigenschaften  
Cherif, Chokri 2011  
SpringerLink Bücher  
[Online verfügbar](#)

e-book (Springer)



Nanomedicine Volume I: Basic Capabilities  
Freitas, Robert A. 1999  
[Online verfügbar](#)

e-book (EBL)

# 1 SLUB-catalog

## e-books

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### How to find an e-book in the SLUB-catalog?

Example 1 (Springer, Hanser):

- Cherif, C. : *Werkstoffe für den Leichtbau : Techniken, Verfahren, Materialien, Eigenschaften*. Berlin : Springer, 2011
- restrict the hit list on **Media Type**
  - „Other“ → e-Book

Example 2 (other publisher): [→ SLUB-catalog](#)

- Treloar, L.R.G. : *The Physics of rubber elasticity*. Oxford University Press
- restrict the hit list on
  - **I. Availability** („Online-resources“)
  - **II. Media Type** („Books“)



# 1 SLUB-catalog

## SLUBsemantics

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- correlation between the local catalog data and information of Wikipedia
- choose SLUBsemantics:
  - for free, topical searches
  - when you have no information about the media (title, author, ISBN, etc.)
  - for searches with fuzzy keywords (!)
- benefit:
  - the correlation of hits to subject group
- Example „mechanotransduction“ → [SLUBsemantics](#)

## 2 SLUB-catalog

### SLUB app

- cost-free app for iPhone/ iPad and Android-phones

#### specification:

- catalog searches
- access on your user account with an overview of loaned medias and date dues
- import your date dues to you calendar (iCal)



# structure

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1. SLUB-catalog
2. databases
  - overview
  - Database Information System DBIS
  - databases for nanotechnology and materials science
3. full-text search

## 2 databases overview

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### bibliographical databases:

- find books/journals and articles of one or more subjects
- contains bibliographically information about author, title, etc.
- full-texts are not necessarily included

### full text data base systems:

- data base with bibliographical information and access to full-texts



## 2 databases

# Database Information System (DBIS)

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- overview of all licensed and free databases
- Search → Find out Information → “specialist databases”
- structured on subjects
  - Engineering, Materials Science

[→ DBIS](#)

## 2 databases

# databases for materials science and nanotechnology

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- Web of Science  
WEB OF KNOWLEDGE<sup>SM</sup> (“world’s leading scholarly literature in the sciences, social sciences, arts, and humanities and examine proceedings of international conferences, symposia, seminars, colloquia, workshops, and conventions”; bibl.)



## 2 databases databases for materials science and nanotechnology

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- IEEE Explore (access on: IEEE-journals, magazines, transactions  
IEEE Conference Proceedings  
IEEE standards; full text database s.)  
→ contained journals/ magazines:
  - IEEE Nanotechnology Magazine
  - IEEE Transactions on Nanobioscience
  - IET Bionanotechnology
  - IET Micro & Nano Letters



## 2 databases

# databases for materials science and nanotechnology

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- SciFinder



- research discovery tool for access on CAS databases
- materials science, biomedical sciences, chemistry, engineering, etc.
- client version suspended in 2011
- use browser based version (online registration required (cost-free), link on DBIS)

## 2 databases

# databases for materials science and nanotechnology

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- MSI Eureka



- world's leading interactive database for evaluated phase diagrams and constitutional data for alloys, non-metals, composites, etc.
- access via client version – registration on DBIS required (cost-free)
- full text data base system

## 2 databases

# databases for materials science and nanotechnology

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- Academic Search Complete (multidisciplinary database on peer-reviewed journals; full text database system)

contained journals:

- Current Nanoscience
- Digest Journal of Nanomaterials & Biostructures (DJNB)
- Fullerenes, Nanotubes & Carbon Nanostructures

- SPIE Digital Library

**SPIE**  
**Digital**  
**Library**

Lukas

(optics and photonics  
contains the Journal of Nanophotonics  
full text data base system)

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## 2 databases

### further databases

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- Perinorm (DIN-standards and VDI-guidelines; full text database system)
- DEPATISnet (patent search; full text database system)
- Patent Full-Text and Full-Page Image Databases (USPTO)  
(patent search of the US Patent and Trademark Office; full text database system)
- QUCOSA (open access database; full text database system)

# structure

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1. SLUB-catalog
2. databases
3. full-text search
  - approach
  - interlibrary loan
  - TUD Document Delivery Services

## 3 full-text search approach

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- full texts are not included in bibliographical data bases

### step by step approach:

- Is the full-text link in the data base available? (ideal case)
- Is the journal available as online edition – do you get access?  
→ retrieval at the EZB
- Is a printout in the SLUB available?
- Is the article available as an interlibrary loan?

## 3 full-text search approach

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- check the availability for
  - printout in the SLUB
  - online access

→ 3 ways for checking the availability:

- 1) SLUB-catalog
- 2) Elektronische Zeitschriftenbibliothek EZB (Electronic Journal Library)  
(overview of licensed journals with online access and free available online journals)
- 3) Zeitschriftendatenbank ZDB (Journal Data Base)  
(overview of the journal collection other German libraries, for interlibrary loan)



## 3 full-text search approach





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- EZB/ ZDB:  
Search → Find out Information → „Search for journals and newspapers“

### Elektronische Zeitschriftenbibliothek EZB:

- search for single journals
- structured on subjects (like DBIS)
- information on availability/ licensing (traffic light)
- direct link to the online journal

#### Der Volltext der Zeitschrift ist...

-  frei zugänglich
-  für Angehörige der TU Dresden u. d. SLUB Dresden freigeschaltet
-  nur für einen Teil der erschienenen Jahrgänge zugänglich
-  nicht zugänglich

## 3 full-text search approach

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### Example 1 - Technology Review:

- SLUB catalog → link to online edition
- EZB → online edition

### Example 1 – Neue Verpackung (New Packaging):

- SLUB-catalog → printout/ online edition (printout from 1948 to present)
  - EZB → online edition (note: - printout not considered in EZB  
- online edition only from 2001 to present)
- use both searches – SLUB- and EZB-catalog for total survey of available journals

## 3 full-text search interlibrary loan

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- if articles are not available as printout and online edition use the interlibrary loan
- search → Find out information → „Interlibrary loan catalog“
- loan an article or a book (copy or original document) from an other German library (allowance 1,50 € per document)
- get **ISO-standards** from TIB-Hannover via interlibrary loan



# 3 full-text search

## TUD Document Delivery Services

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- in-house document delivery service for employees, university lecturers and professors
- you may request articles from journals and excerpts from books (< 10% of the entire number of pages) which are found in the SLUB collection
- up to 5 articles or book excerpts per day free of charge
- you will receive your documents per e-mail as PDF files less than 72 hours after your order

TUD Document  
Delivery Services

2000 - 2009

Jg. 62.2009,7/12+Beil. in **Bereichsbibliothek DrePunct**  
(Freihand Zeitschriften - Regal 01 4 02729 0 0062 1 02) 33428088: **Benutzung nur im Haus!**



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# Questions?

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