



Secretaría de Educación Superior
Ciencia y Tecnología e Innovación



Gobierno
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METODOLOGÍA DE LA INVESTIGACIÓN

ARQ. GABRIELA PINOSVEINTIMILLA



UNIDAD I. La Investigación



I.3. RECOLECCIÓN Y PROCESAMIENTO DE INFORMACIÓN

Objetivo: Entender los tipos de recolección y procesamiento de información para la aplicación en proyectos de investigación.

RECOLECCIÓN DE LA INFORMACIÓN



Para la investigación es necesario utilizar instrumentos de recolección que sirva para recabar la información, la cual se deberá analizar, describir, descifrar y presentar en apartados posteriores del trabajo.

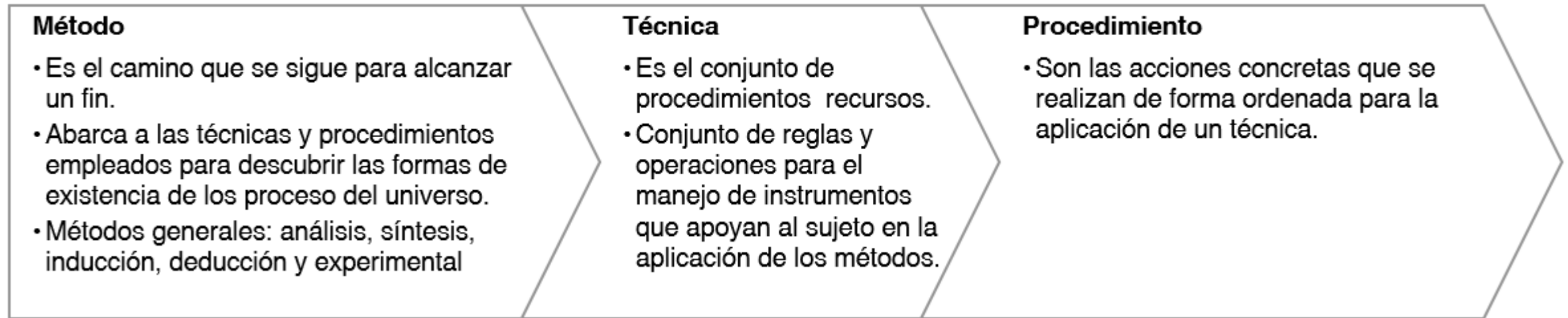
Para la correcta ejecución de un instrumento con el que se obtendrá la información, es necesario utilizar métodos, técnicas y procedimientos adecuados, esto en base al objeto de estudio y los objetivos planteados.

Las herramientas metodológicas de la investigación están compuestas por los métodos, técnicas y procedimiento

RECOLECCIÓN DE LA INFORMACIÓN

Figura 28

Herramientas metodológicas de la investigación



Fuente: Cortés Padilla (2012).

Elaborado por: Autora.

RECOLECCIÓN DE LA INFORMACIÓN

Figura 29

Técnicas e instrumentos para la recolección de información



Fuente: Cortés Padilla (2012).
Elaborado por: Autor.

ORGANIZACIÓN Y VALIDACIÓN DE LA INFORMACIÓN

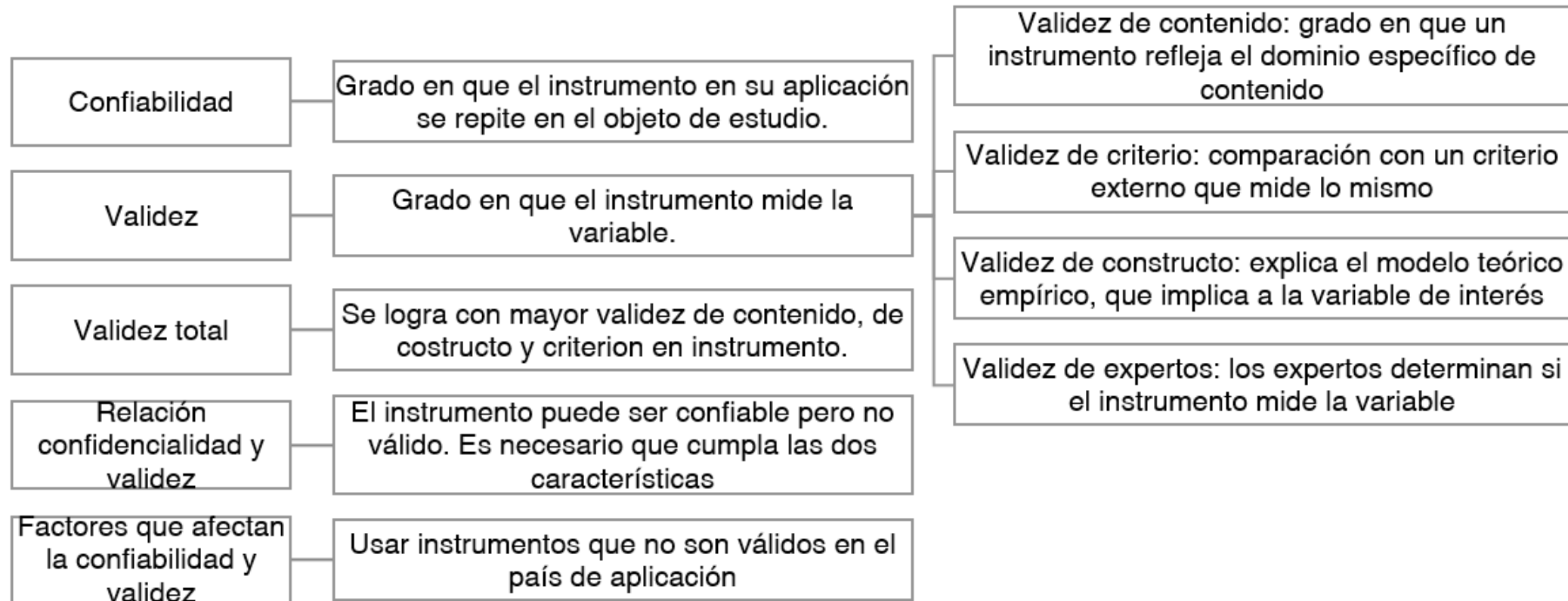


Para garantizar una adecuada recolección de información se requiere llevar una organización y validación de los datos. Una vez identificado los instrumentos se debe tomar en cuenta el nivel de medida de cada uno de los datos para el análisis que se tratará en los resultados de la investigación

ORGANIZACIÓN Y VALIDACIÓN DE LA INFORMACIÓN

Figura 30

Características para la organización y validación de la información



Elaborador por: Autor.

REFERENCIA, BIBLIOGRAFÍA Y CITACIÓN

Una referencia es un conjunto de datos bibliográficos que permite identificar cualquier documento utilizado en tu trabajo de manera expresa. Se sitúa como nota a pie de página, al final del capítulo o al final de todo el texto en forma de lista, siendo esto último a lo que llamamos bibliografía

Una bibliografía es el listado completo de todos los materiales empleados para realizar un trabajo y aparece siempre al final del documento y ordenada alfabéticamente.

Una cita consiste en mencionar en un texto las palabras que ha escrito o ha dicho otro autor. Son aquellos textos ajenos que se traen al documento para probar lo que se afirma o para contrastarlo.



REVISIÓN BIBLIOGRÁFICA



- Búsqueda en base de datos académicos:
- **Procedimiento estructurado** cuyo objetivo es **localizar y recuperar información relevante** para un usuario que quiere dar respuesta a cualquier duda relacionada con su práctica.

REVISIÓN BIBLIOGRÁFICA



- **Para mejorar la destrezas en la búsqueda se debe:**
- Analizar el problema de lo que se va a estudiar.
- Invertir tiempo en pensar acerca de la necesidad de información.
- Determinar el nivel, tipo, alcance de la necesidad para caracterizar el problema.
- Tener claridad de lo que se busca y planear adecuadamente la estrategia para buscar.

REVISIÓN BIBLIOGRÁFICA

- **Para una correcta búsqueda y revisión de bibliografía en relación a un tema de estudio, se debe:**
- Identificar y seleccionar fuentes, herramientas y documentos donde buscar.
- Articular los conceptos, terminología y relaciones relevantes en el lenguaje científico en cuestión.
- Evaluar la calidad, fiabilidad y rigor de la información recolectada.

REVISIÓN BIBLIOGRÁFICA

- Según el tema de estudio, se debe buscar la información, por ejemplo:

¿QUÉ BUSCO?	¿DÓNDE BUSCO?
Aclarar conceptos, aproximación a un tema	Enciclopedias, diccionarios, manuales
Datos, características, estadísticas	Recopilaciones, directorios, prontuarios
Un tema específico	Artículos de revista, libros
Métodos para hacer algo	Normativa, legislación, patentes
Estado de la cuestión en investigación de un tema	Artículos de revisión

REVISIÓN BIBLIOGRÁFICA

Bases de datos académicos

- **Fuentes de información masivas** electrónicas, compuestas de referencias, que describen brevemente **documentos** (artículos de revista, libros, publicaciones periódicas, informes, comunicaciones de congresos, patentes, textos electrónicos, entre otros), aportando **datos identificativos** (autores, títulos, fuente, editorial, fechas, idioma, tipo de publicación, etc.) e informando sobre el **contenido** (materias, palabras clave, clasificación, resumen).

REVISIÓN BIBLIOGRÁFICA

Bases de datos académicas

Multidisciplinares

☐

☐ Web of Science

☐ Science Direct

☐ Scopus

☐ Jstor

☐ IEEE Xplore

☐ Dialnet

☐ CSIC

Ciencia e Ingeniería

☐

☐ Inspec

☐ Compendex

☐ Mathscinet

☐ Chemical Abstracts

☐ Derwt

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REVISIÓN BIBLIOGRÁFICA

LA REVISIÓN BIBLIOGRÁFICA APOYA

Planteamiento e identificación
del problema

¿Qué? Y ¿Por qué?

Contexto, Tema general, Tema
específico, Problema operativo y
Propuesta/solución

Antecedentes

¿Cómo?

Origen, Evolución e
Investigaciones similares

Justificación

¿Para qué?

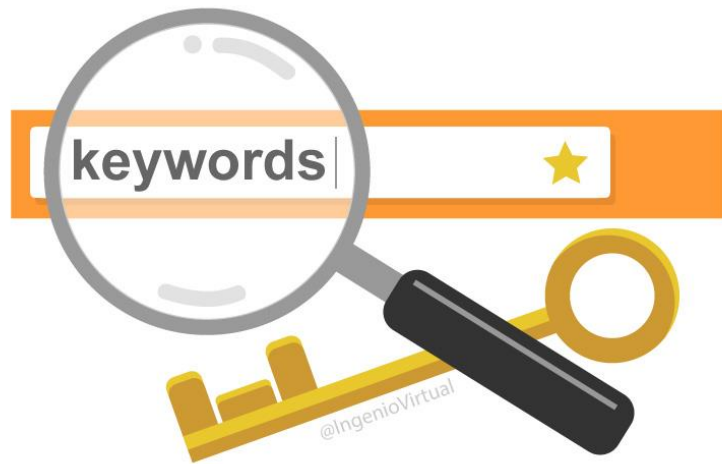
Vigencia del problema, mejora
de planteamientos originales,
novedad en la investigación

Delimitación del problema

¿Cuánto? ¿Dónde? ¿Cuándo? ¿A
quién?

REVISIÓN BIBLIOGRÁFICA

Palabras clave



- Son aquellas palabras que **aportan una información importante y significativa** acerca de un contenido. Son esenciales porque **permiten conocer la esencia de cualquier información, texto o mensaje.**
- Sirven para: **Buscar información, etiquetar el proyecto, los reportes escritos** para búsquedas futuras de los resultados de investigación.

BASES DE DATOS ACADÉMICAS

Bases de datos académicos

Science Direct

- <http://www.sciencedirect.com/>

IEEE Xplore

- <http://ieeexplore.ieee.org/Xplore/home.jsp>

Google Scholar

- <https://scholar.google.com/>

Scopus

- Acceso institucional

Springer

- <https://link.springer.com/>

Dialnet

- <https://dialnet.unirioja.es/>

BASES DE DATOS ACADÉMICAS

Science Direct

The screenshot shows the ScienceDirect website interface. At the top, the ScienceDirect logo is on the left, and navigation links for 'Journals & Books', 'Register', and 'Sign in' are on the right. Below the navigation bar is a search bar with the text 'Search for peer-reviewed journals, articles, book chapters and open access content.' The search bar contains several input fields: 'Keywords', 'Author name', 'Journal/book title', 'Volume', 'Issue', and 'Pages'. To the right of these fields is a magnifying glass icon and a link to 'Advanced search'. Below the search bar is a large dark teal banner with the text 'More than 1 million researchers are already using ScienceDirect Recommendations'. Below this text is a smaller line: 'Our free Recommendations service uses machine learning and your online activity to suggest research tailored to your needs'. At the bottom of the banner is a blue button that says 'Start receiving recommendations >'. Below the banner is a section titled 'Explore scientific, technical, and medical research on ScienceDirect' with a horizontal list of categories: 'Physical Sciences and Engineering', 'Life Sciences', 'Health Sciences', and 'Social Sciences and Humanities'. At the bottom of the page is a Windows taskbar with various application icons and a system tray showing the time as 19:24 on 29/11/2018.

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BASES DE DATOS ACADÉMICAS

IEEE Xplore

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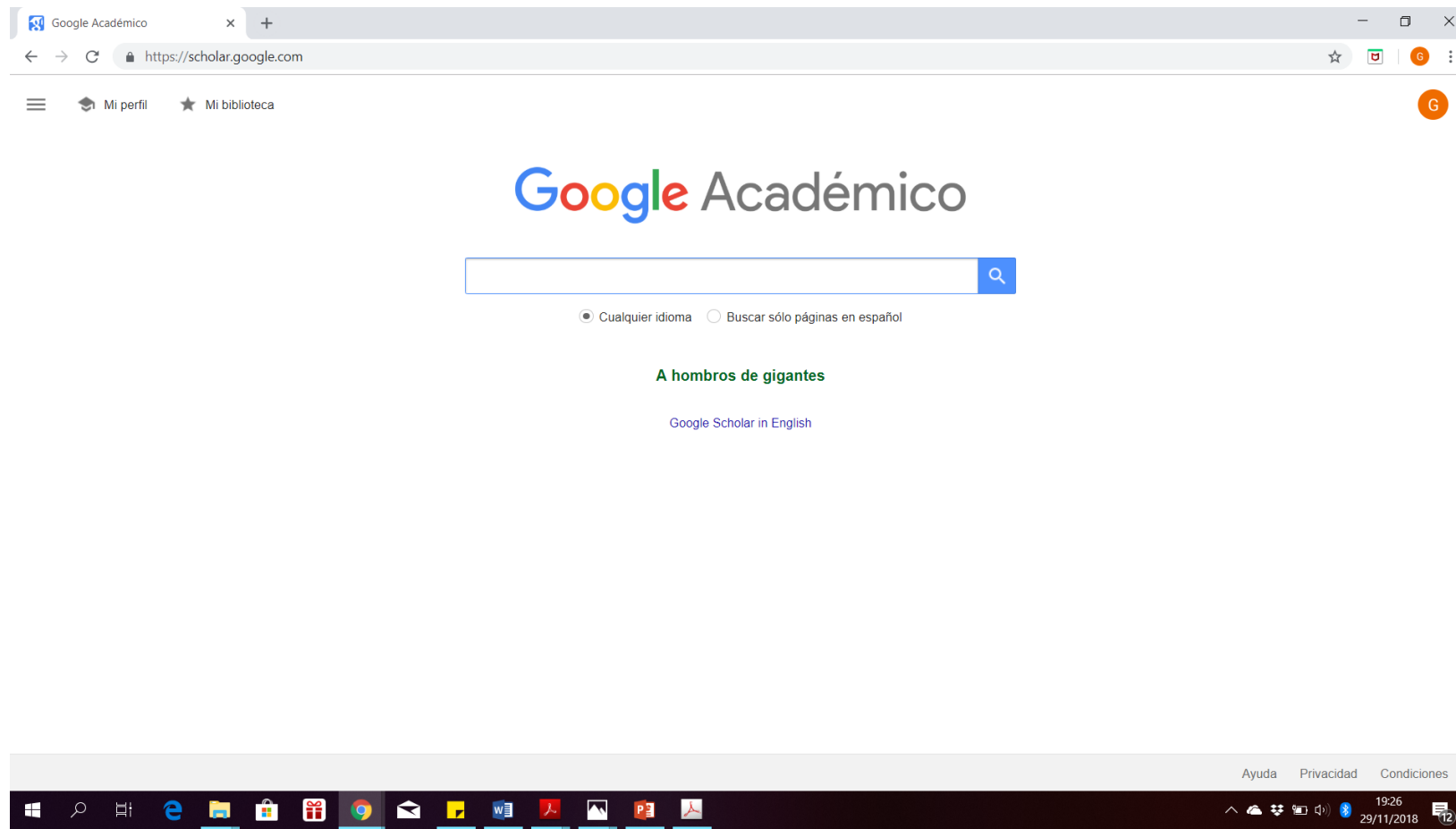
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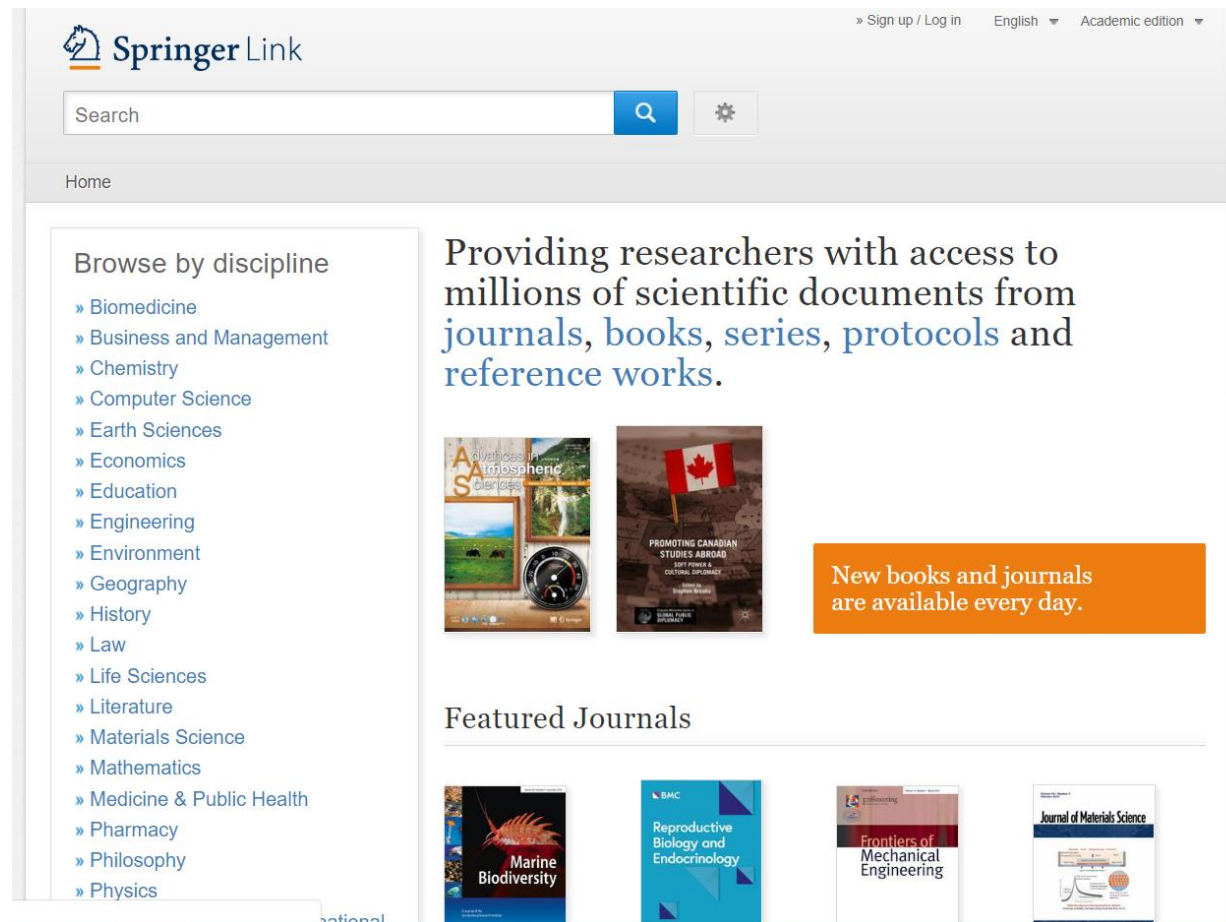
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BASES DE DATOS ACADÉMICAS

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- Biblioteca virtual formada por una colección de revistas científicas

Redalyc

- Sistema de información científica de acceso abierto a las revistas científicas

Latindex

- Red de instituciones que funcionan de manera coordinada para reunir y diseminar información sobre las publicaciones científicas

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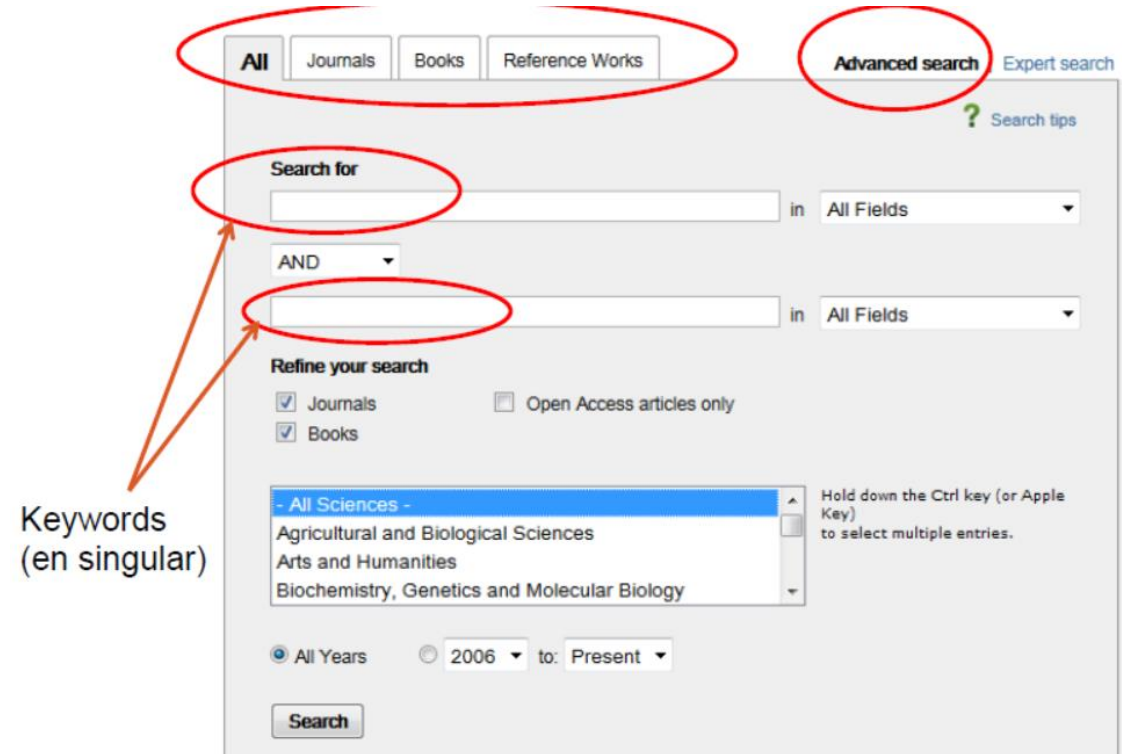
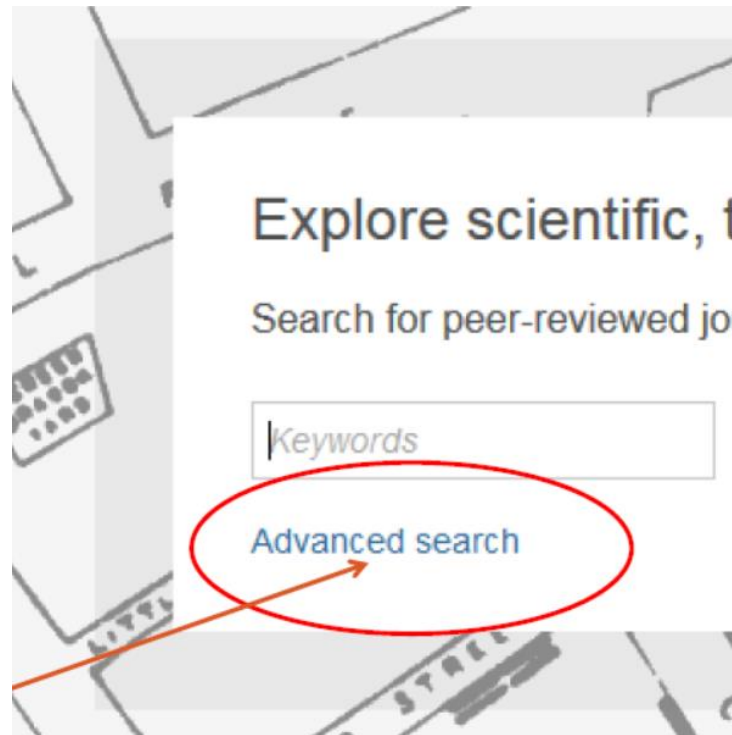
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1.3 DESCARGA DE ARTÍCULOS Y CITAS

Science Direct



1.3 DESCARGA DE ARTÍCULOS Y CITAS

Science Direct

The screenshot shows the 'Advanced search' interface. At the top, there are tabs for 'All', 'Journals', 'Books', and 'Reference Works'. Below these, there are two search input fields. The first field has a dropdown menu set to 'AND', which is circled in red. An arrow points from the text 'Conector' to this dropdown. Below the search fields, there is a 'Refine your search' section with checkboxes for 'Journals' and 'Books'. Below this, there is a list of scientific areas: '- All Sciences -', 'Agricultural and Biological Sciences', 'Arts and Humanities', and 'Biochemistry, Genetics and Molecular Biology'. The first item is selected and highlighted in blue. An arrow points from the text 'AND OR AND NOT' to the 'AND' dropdown. At the bottom, there is a 'Search' button.

Conector

AND
OR
AND NOT

The screenshot shows the 'Advanced search' interface. At the top, there are tabs for 'All', 'Journals', 'Books', and 'Reference Works'. Below these, there are two search input fields. The first field has a dropdown menu set to 'All Fields', which is circled in red. An arrow points from the text 'Búsqueda en.' to this dropdown. Below the search fields, there is a 'Refine your search' section with checkboxes for 'Journals' and 'Books'. Below this, there is a list of scientific areas: '- All Sciences -', 'Agricultural and Biological Sciences', 'Arts and Humanities', and 'Biochemistry, Genetics and Molecular Biology'. The first item is selected and highlighted in blue. An arrow points from the text 'Área científica' to this list. At the bottom, there is a 'Search' button.

Búsqueda en.

Área científica

Intervalo de tiempo de búsqueda

Tipo de fuente bibliográfica

1.3 DESCARGA DE ARTÍCULOS Y CITAS

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Advanced search | **Expert search**

? Search tips

Search for (Enter terms using Boolean connectors e.g. "heart attack" AND stress)

**"fault diagnosis"
AND "gear" OR
"bearing"**

Refine your search

☒ Journals ☐ Open Access articles only
☒ Books

- All Sciences -
Agricultural and Biological Sciences
Arts and Humanities
Biochemistry, Genetics and Molecular Biology

Hold down the Ctrl key (or Apple Key) to select multiple entries.

☒ All Years ☐ 2006 to: Present

Search

Uso de varios conectores

1.3 DESCARGA DE ARTÍCULOS Y CITAS

Science Direct

Filtros

Refine filters

Year

- ☐ 2016 (205)
- ☐ 2015 (317)
- ☐ 2014 (217)
- ☐ 2013 (202)
- ☐ 2012 (177)

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Publication title

- ☐ Mechanical Systems and Signal Processing (417)
- ☐ Expert Systems with Applications (140)
- ☐ Measurement (132)
- ☐ Journal of Sound and Vibration (126)
- ☐ Control Engineering Practice (96)

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Topic

- ☐ fault (317)
- ☐ system (164)
- ☐ fault diagnosis (148)
- ☐ neural network (131)
- ☐ expert system (100)

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Content type

- ☐ Journal (2,565)

Información del artículo

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☐ Low speed bearing fault diagnosis using acoustic emission sensors Original Research Article
Applied Acoustics, Volume 105, April 2016, Pages 35-44
Brandon Van Hecke, Jae Yoon, David He
[Abstract](#) [Purchase PDF - \\$39.95](#)

☐ Vibration signal models for fault diagnosis of planet bearings Original Research Article
Journal of Sound and Vibration, Volume 370, 26 May 2016, Pages 372-393
Zhipeng Feng, Haoqun Ma, Ming J. Zuo
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☐ Thermal analysis MLP neural network based fault diagnosis on worm gears Original Research Article
Measurement, Volume 86, May 2016, Pages 56-66
Tayyab Waqar, Mustafa Demeigul
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☐ Phenomenological models of vibration signals for condition monitoring and fault diagnosis of epicyclic gearboxes Original Research Article
Journal of Sound and Vibration, Volume 369, 12 May 2016, Pages 266-281
Yaguo Lei, Zongyao Liu, Jing Lin, Fanbo Lu
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☐ Bearing fault diagnosis under unknown variable speed via gear noise cancellation and rotational order sideband identification Original Research Article
Mechanical Systems and Signal Processing, Volumes 62-63, October 2015, Pages 30-53
Tianyang Wang, Ming Liang, Jianyong Li, Weidong Cheng, Chuan Li
[Abstract](#) [Research highlights](#) [Purchase PDF - \\$35.95](#)

☐ Multi-fault detection and failure analysis of wind turbine gearbox using complex wavelet transform Original Research Article
Renewable Energy, Volume 93, August 2016, Pages 591-598
Wei Tang, Yian Ding, Yankun Zhang, Yihua Liu, Zhong Ma

1.3 DESCARGA DE ARTÍCULOS Y CITAS

Science Direct

Acceso

The screenshot displays the ScienceDirect interface for an article in 'Applied Acoustics'. The page is annotated with red circles and arrows pointing to specific features:

- Acceso:** Points to the 'Purchase' button in the top navigation bar.
- Organización del artículo:** Points to the 'Article outline' section on the left, which lists the article's structure: Abstract, Keywords, 1. Introduction, 2. The methodology, 3. Experimental setup, 4. Results, 5. Conclusions, and References.
- Identificador digital del artículo:** Points to the DOI (10.1016/j.apacoust.2015.10.028) located below the article title.
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The main article details include the title 'Low speed bearing fault diagnosis using acoustic emission sensors', authors 'Brandon Van Hecke, Jao Yoon, David He', and the journal information 'Volume 105, April 2016, Pages 35–44'. The 'Choose an option to locate/access this article:' section provides options to 'Check access', 'Purchase \$39.95', or 'Rent at DeepDyve'.

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- Filtros**: Points to the "Refine results by" sidebar on the left, which includes filters for "Content Type" (Conference Publications, Journals & Magazines) and "Year" (Single Year, Range).
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- Información del artículo**: Points to the title and authors of the first article: "Continuous hidden Markov model based gear fault diagnosis and incipient fault detection" by J. S. Kang; X. H. Zhang; Y. J. Wang.
- identificador**: Points to the DOI of the first article: 10.1109/ICQR2MSE.2011.5976659.

The results list shows two articles:

- Article 1:** "Continuous hidden Markov model based gear fault diagnosis and incipient fault detection" by J. S. Kang; X. H. Zhang; Y. J. Wang. Published in "Quality, Reliability, Risk, Maintenance, and Safety Engineering (ICQR2MSE), 2011 International Conference on". Year: 2011. Pages: 486 - 491, DOI: 10.1109/ICQR2MSE.2011.5976659. Cited by: Papers (1). IEEE Conference Publications. Abstract (html) (1185 Kb).
- Article 2:** "Gear fault diagnosis method based on Volterra kernel identification" by G. Yu; Y. Chen; Y. Zhao; Y. Chen. Published in "Chinese Automation Congress (CAC), 2015". Year: 2015. Pages: 2097 - 2099, DOI: 10.1109/CAC.2015.7382850. IEEE Conference Publications. Abstract (html) (384 Kb).

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Note: Refresh page to reflect updated preferences.

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conectores

Agregar palabras de búsqueda

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CONTENT FILTER

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The study is focused on estimating the severity level of the **bearing** faults which helps in determining the residual life of the equipment and planned maintenance. A novel technique, adaptive severity estimation model (ASEM) is proposed based on adaptive selection of wavelet decomposition nodes and support vector machines. Vibration data from multiple severity levels are used to build the fault estimation model. An adaptive criterion for wavelet decomposition node selection is developed which helps ASEM to achieve robustness in estimating **fault severity** under varying signal to noise ratio (SNR), a key demand in industrial environment. The simulated data with known severity level is used to parameterize the estimation model. The **fault severity** estimation performance of ASEM is also validated for the real vibration data and its robustness is gauged under varying SNR conditions.

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A novel intelligent gear fault diagnosis model based on EMD and multi-class TSVM
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Torsional-vibration assessment and gear-fault diagnosis in railway traction system
H Henao, SH Kia, GA Capolino - Industrial Electronics, IEEE, 2011 - ieeexplore.ieee.org
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A review on empirical mode decomposition in fault diagnosis of rotating machinery
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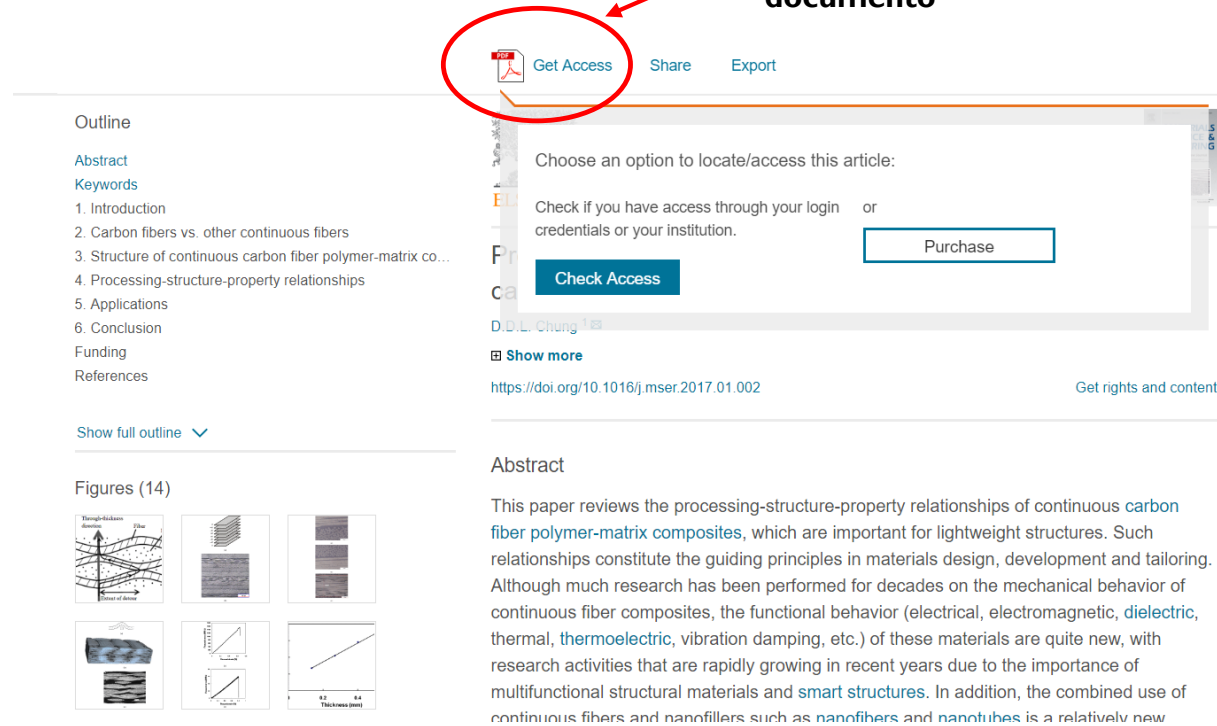
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- 1. Introduction
- 2. Carbon fibers vs. other continuous fibers
- 3. Structure of continuous carbon fiber polymer-matrix co...
- 4. Processing-structure-property relationships
- 5. Applications
- 6. Conclusion
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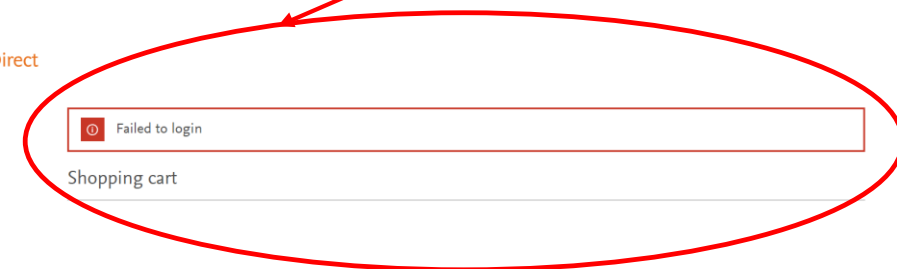
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Abstract

This paper reviews the processing-structure-property relationships of continuous carbon fiber polymer-matrix composites, which are important for lightweight structures. Such relationships constitute the guiding principles in materials design, development and tailoring. Although much research has been performed for decades on the mechanical behavior of continuous fiber composites, the functional behavior (electrical, electromagnetic, dielectric, thermal, thermoelectric, vibration damping, etc.) of these materials are quite new, with research activities that are rapidly growing in recent years due to the importance of multifunctional structural materials and smart structures. In addition, the combined use of continuous fibers and nanofillers such as nanofibers and nanotubes is a relatively new

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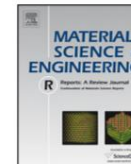


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Processing-structure-property relationships of continuous carbon fiber polymer-matrix composites



D.D.L. Chung¹

Composite Materials Research Laboratory, Department of Mechanical and Aerospace Engineering, University at Buffalo, The State University of New York, Buffalo, NY 14260-4400, USA

ARTICLE INFO

Article history:

Received 1 September 2016

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This paper reviews the processing-structure-property relationships of continuous carbon fiber polymer-matrix composites, which are important for lightweight structures. Such relationships constitute the guiding principles in materials design, development and tailoring. Although much research has been performed for decades on the mechanical behavior of continuous fiber composites, the functional behavior (electrical, electromagnetic, dielectric, thermal, thermoelectric, vibration damping, etc.) of these materials are quite new, with research activities that are rapidly growing in recent years due to the

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