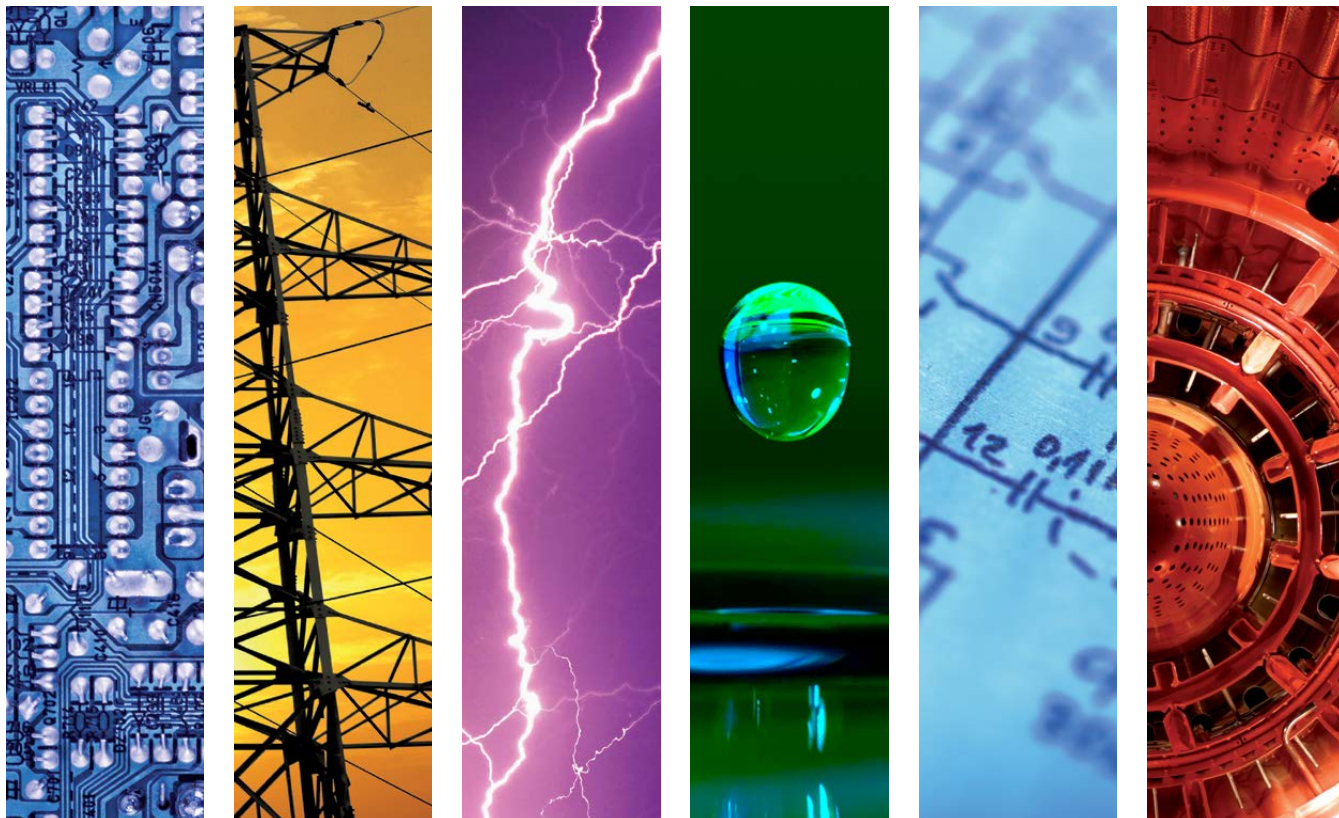




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Electrical Engineering & Electronics  
Computers & Control  
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# Powering Quality Research

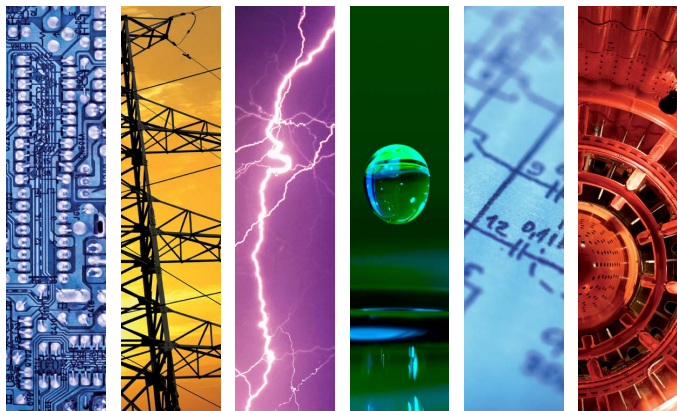


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# Why Inspec?

## Quality, Focus and Intelligence

The IET Inspec database is one of the world's most definitive bibliographic scientific databases, containing 16 million abstracts and specialized indexing to the world's best research literature in the fields of engineering, physics and computing.



### BROAD SCOPE AND COVERAGE



Contains

**16 million records**

Inspec was established over 40 years ago with a reputation as one of the best and most comprehensive databases for science, engineering, physics and technology research



Over

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are added each year



More than

**1,000 different publishers**

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Access global, peer-reviewed material in publications from more than **68 countries** from both English and non-English sources



Over

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journal articles

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**14,000+**

book titles

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open access journals are indexed



Full text linking via Digital Object Identifiers (DOI's)  
(80% of current material)



The implementation of **International Patent Classification** (IPC) codes is a valuable tool for the prior-art searcher, allowing the clustering of relevant non-patent literature using an internationally recognized patent coding structure



Optional **Archive** with fully searchable access to over 70 years of research in science, engineering and technology, dating from 1898 - 1968.



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## QUALITY



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# Subject Coverage

The Inspec database covers five main subjects to provide comprehensive coverage of the areas you need.



## A - Physics

- A00 General
- A10 The physics of elementary particles and fields
- A20 Nuclear physics
- A30 Atomic and molecular physics
- A40 Fundamental areas of phenomenology
- A50 Fluids, plasmas and electric discharges
- A60 Condensed matter: structure, thermal and mechanical properties
- A70 Condensed matter: electronic structure, electrical, magnetic, and optical properties
- A80 Cross-disciplinary physics and related areas of science and technology
- A90 Geophysics, astronomy and astrophysics



## B - Electrical Engineering and Electronics

- B00 General topics, engineering mathematics and materials science
- B10 Circuit theory and circuits
- B20 Components, electron devices and materials
- B30 Magnetic and superconducting materials and devices
- B40 Optical materials and applications, electro-optics and optoelectronics
- B50 Electromagnetic fields
- B60 Communications
- B70 Instrumentation and special applications
- B80 Power systems and applications



## C - Computers and Control

- C00 General and management topics
- C10 Systems and control theory
- C30 Control technology
- C40 Numerical analysis and theoretical computer topics
- C50 Computer hardware
- C60 Computer software
- C70 Computer applications



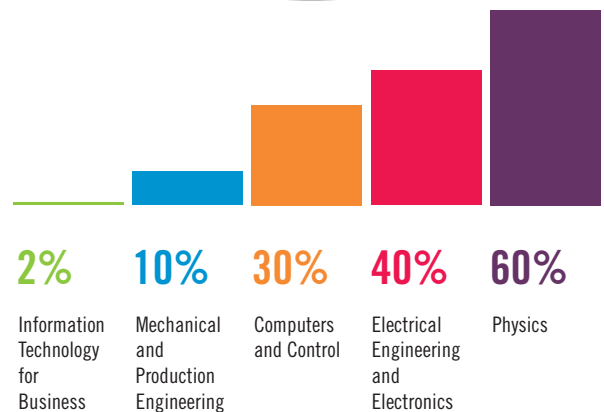
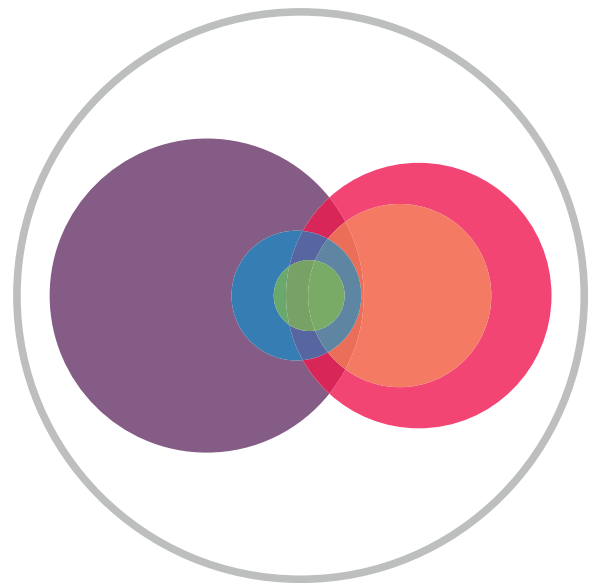
## D - Information Technology for Business

- D10 General and management aspects
- D20 Applications
- D30 General systems and equipment
- D40 Office automation - communications
- D50 Office automation - computing



## E - Mechanical and Production Engineering

- E00 General topics in manufacturing and production engineering
- E10 Manufacturing and production
- E20 Engineering mechanics
- E30 Industrial sectors



**16 million records**

Chart shows percentage of subject coverage in the database; subject coverage areas overlap.

# Outline of Inspec Coverage

The Inspec database covers five main subject areas to provide comprehensive coverage of the areas you need.

## A - Physics

- elementary particle and nuclear physics
- atomic and molecular physics
- electro dynamics
- quantum physics
- nuclear structure
- nuclear energy
- optics
- acoustics
- fluid dynamics
- plasma physics
- condensed matter physics
- materials science
- biophysics
- geophysics
- astronomy
- astrophysics
- semiconductors
- superconductors
- magnetism
- lasers
- fibre optics
- instrumentation
- nuclear engineering
- energy research and environmental science
- gravitation and relativity
- statistical physics
- measurement science
- electromagnetism
- structural, thermal and mechanical properties of condensed matter

## B - Electrical Engineering and Electronics

- electronic components and technology
- telecommunications
- power engineering and instrumentation
- aerospace electronics
- antennas and propagation
- biomedical engineering
- electric machines
- electron tubes
- electronic circuits
- energy conversion
- image processing
- insulation
- lasers
- magnetic devices
- measurement
- microelectronics
- microwave technology
- military electronics
- nuclear instrumentation
- optical and optoelectronic devices
- power generation and supply
- printed circuits
- radar

- radiocommunications
- radio and television
- semiconductor technology
- signal processing
- speech processing
- superconducting devices
- engineering materials

## C - Computers and Control

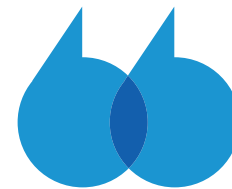
- artificial intelligence
- computer theory
- hardware
- software
- applications of computing
- optical computing
- neurocomputing
- computers themselves and their elements
- circuitry
- storage
- peripheral equipment
- networking
- application programs
- legal aspects of computing
- software engineering
- systems techniques
- systems analysis
- software metrics
- computing applications
- expert systems
- decision support systems
- financial computing
- data, signal and word processing
- desktop publishing
- computer-aided analysis and design
- computer communications
- computerised control and instrumentation
- communications
- industrial production
- instrumentation
- control technology applications
- materials handling
- manufacturing processes
- transportation

## D - Information Technology for Business

- business
- banking and insurance
- leisure and the media
- marketing and retailing
- electronic mail
- facsimile
- teleconferencing
- viewdata
- computer terminals
- communications
- word processing

## E - Mechanical and Production Engineering

- management issues
- manufacturing environment
- information technology
- applications
- production management
- design and ergonomics
- manufacturing processes
- manufacturing technology
- materials and products
- industrial sectors
- engineering mechanics



*Inspec gives comprehensive cover of the subject areas and has material not found on other databases. Students having difficulty in finding relevant material to support their dissertations and projects find such material on Inspec.*

*The Inspec database is vast and covers the publications of numerous publishers and institutions, which 'full text' databases however good are unable to do so. A useful feature that Inspec provides is that it is easy to link from Inspec to the full text of subscribed titles from within the institution.*

Shelley Ahmed,  
Subject Librarian,  
Faculty of Computing,  
London Metropolitan  
University, UK



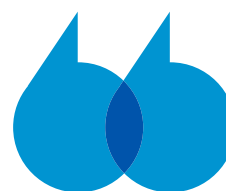
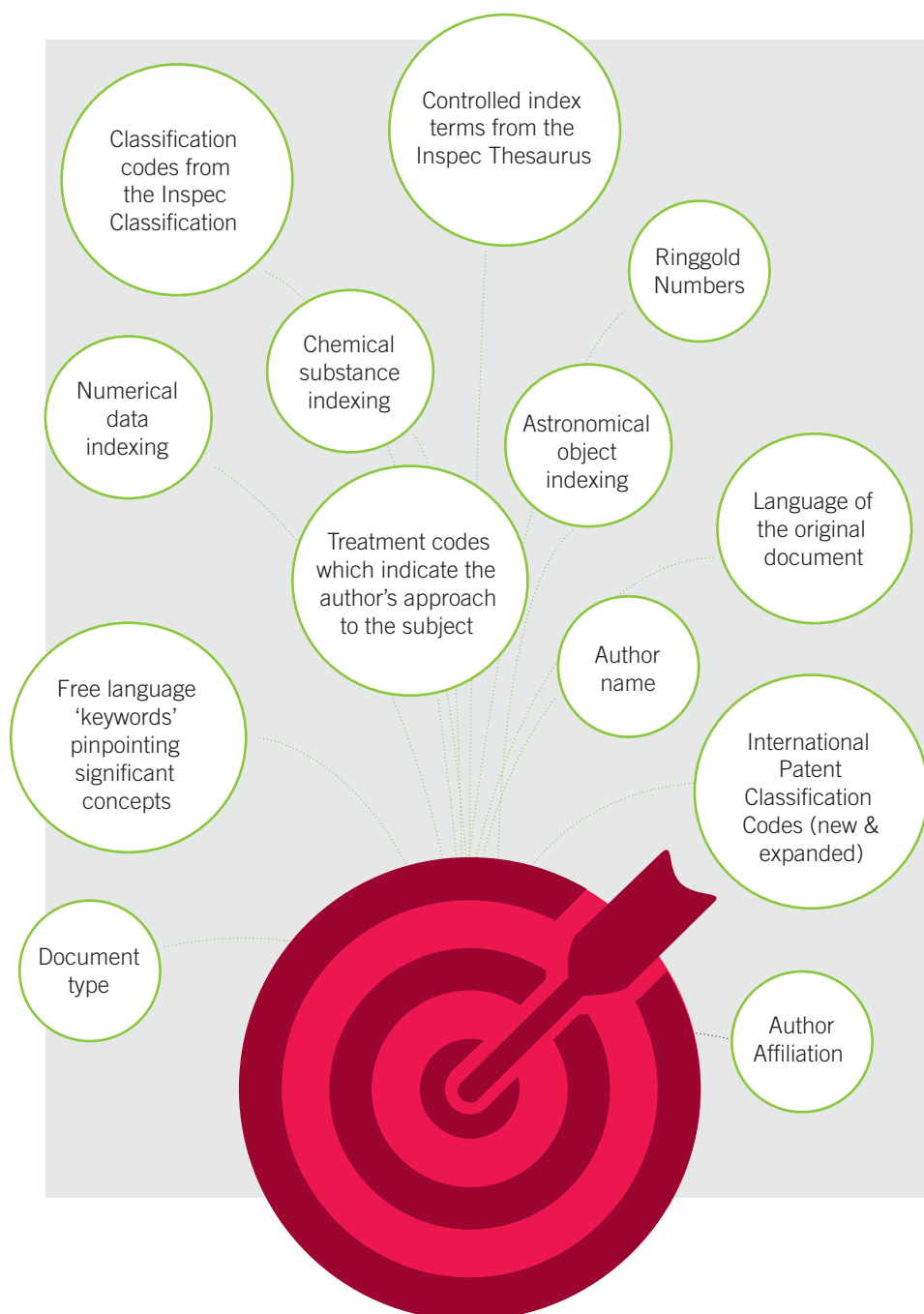
# Database Records

Each Inspec record contains a wealth of specialized indexing to enable searchers to swiftly pinpoint the content that they need for their research.

## Record fields

Each record in Inspec contains an English-language title and a descriptive abstract together with full bibliographic details. These include the author's name and affiliation as well as the publication title.

To supplement natural-language searching, Inspec provides an extensive range of search elements:



*I have used Inspec for many years and have found the database to be beneficial. I get straight to the area of research, cutting out irrelevant information and saving time that can be spent on other project areas. I've not found any other database that produces the same high quality peer reviewed literature as Inspec.*

Professor Wan Yuehua, Head of Reference Library Department, **Zhejiang University of Technology, China**



# Sample Record

15 Millionth record

**INSPEC ACCESSION NO.:** 15,000,000  
**UPDATE:** 2015-13  
**DOCUMENT TYPE:** Journal Paper  
**MIN:** ET76-B4020-A080

**TITLE:** Biochip technology applied to an automated ABO compatibility test at the patient bedside  
**AUTHOR(S):** Charrière, K.; Rouleau, A.2; Gaiffe, O. 2; Fertey, J.3; Morel, P.4; Bourcier, V.5; Pieralli, C.2; Boireau, W.2; Pazart, L.1; Wacogne, B.1

**AFFILIATION(S):**

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- FEMTO-ST Institute, Besançon, France [Affiliation ID 88524]
- University of Franche-Comté, (ISIFC), Besançon, France [Affiliation ID 27000]
- Etablissement Français du Sang Bourgogne/Franche-Comté, Besançon, France [Affiliation ID 376941]
- Besançon University Hospital, (Hemovigilance Service), Besançon, France [Affiliation ID 55049]

**JOURNAL:** Sensors and Actuators B: Chemical, vol.208, 67-74

**PUBLICATION DATE:** 1 March 2015

**PUBLISHER:** Elsevier B.V.

**ISSN:** 0925-4005

**JIN:** ET76

**CODEN:** SABCEB

**DOI:** 10.1016/j.snb.2014.10.123

**LANGUAGE:** English

**ABSTRACT:** In the field of blood transfusion, there is a need to improve the bedside pre-transfusion ABO compatibility test. In France, this test is mandatory for each red cell concentrates transfusion. It is performed manually and serious transfusion accidents still occur, principally due to human errors. Therefore, an automated ABO compatibility test is required. Works concerning objective interpretation of ABO compatibility test have been reported but the proposed techniques cannot be easily translated to the patient's bedside. We propose a prototype device which demonstrates the easy use of biochip technology to perform this test: it contains a fluidic system, biochips (two to test the patient and two to test the red cell concentrates) and an optical absorbance detection module. When blood is applied to the biochips, red blood cells are trapped onto the surface if antigens and antibodies are complementary (positive chips). If they are not complementary, very little red blood cells are adsorbed (negative chips). Percentages of surface covered with red blood cells in negative biochips are  $2\% \pm 2$  (red cell concentrates) and  $1\% \pm 1$  (whole blood). This proves that the fluidic configuration leads to an optimum control of fluids flows with little retention of red blood cells in the circuitry. These percentages increase to  $96\% \pm 3$  and  $82\% \pm 8$  for red cell concentrates and whole blood respectively. This demonstrates a strong and specific immunocapture of red blood cells on positive chips. Furthermore, optical detection proves to be efficient at critical red blood cells concentrations ( $10^{8-9}$  C/mL) and absorbance strongly correlates to the percentage of red blood cells captured by antibodies. [All rights reserved Elsevier]. (44 refs)

**TREATMENT:** Practical; Experimental

**CONTROLLED INDEXING:** surface plasmon resonance; optical sensors; lab-on-a-chip; biosensors; blood; cellular biophysics; microfluidics; bioMEMS; biomedical measurement; medical control systems; flow control; patient treatment

**UNCONTROLLED INDEXING:** biochip technology; automated ABO blood type compatibility test; patient bedside; bedside pre-transfusion ABO blood compatibility test; France; mandatory blood type compatibility test; blood transfusion accidents; fluidic system; red blood cell concentrates; antigens; antibodies; positive chips; negative chips; red blood cell adsorption; covered biochip surface percentage; fluidic configuration; optimum fluid flow control; whole blood; red blood cell immunocapture; optical detection; red blood cell concentration; absorbance; antibody red blood cell capture; lab-on-chip; SPR immunosensor; surface plasmon resonance immunosensor

**CLASSIFICATION:** [A8760F](#) Optical and laser radiation (medical uses); [A0710C](#) Micromechanical and nanomechanical devices and systems; [A0760](#) Optical instruments and techniques; [A4762](#) Flow control; [A4785](#) Applied fluid mechanics; [A4787](#) Microfluidics and nanofluidics; [A8770E](#) Patient diagnostic methods and instrumentation; [A8780B](#) Biosensors; [B7510J](#) Optical and laser radiation (biomedical imaging/measurement); [B2575](#) MEMS and NEMS device technology; [B7230J](#) Biosensors; [B7580](#) Biological engineering and techniques; [C3385](#) Biological and medical control systems; [C3120T](#) Level, flow and volume control; [C7330](#) Biology and medical computing; [C7420](#) Control engineering computing

**IPC:** [A61B5/00](#)

# Who uses Inspec?

## Academics

Librarians of the world's top universities have relied on the Inspec database as a trusted source for relevant, peer reviewed scientific content for over 40 years. Inspec continues to be the definitive source for engineering and physics researchers who don't want to waste time using substandard research tools that may or may not deliver targeted, timely results. In fact, 84% out of the top 50 universities in the world for electrical engineering subscribe to Inspec. Electronic access to Inspec and/or the Inspec Archive allows academia (librarians, faculty and students) to drive their research in the right direction plus remain cutting edge and equipped to innovate in the fast pace of the 21st century.

### Benefits: Inspec helps faculty and students to:

- Supplement class work with further reading
- Provide comprehensive literature searches for academic publications
- Find organizations with strengths in areas of interest to identify potential graduate programs or employers
- Research the publications of faculty members
- Keep current on key areas of interest by receiving email alerts

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Leading government agencies and organizations worldwide trust their research queries to Inspec when they need to retrieve complex information quickly and easily. Researchers are safeguarded from the hassle of sorting through irrelevant information lacking merit or value to their research when they access credible, targeted scientific information within Inspec. The reliability and scope of Inspec's subject coverage continues to attract the most promising contributors to science and technology and has aided in their creation of modern scientific advances that impact key areas of global infrastructure.

### Benefits: Inspec helps government researchers to:

- Locate and pin point reliable information needed to keep mission critical projects on track and moving forward
- Stay current on the latest breaking advances in research and equipped with knowledge to make wise and sometimes tough choices
- Strategize on a global scale and harness the worlds scientific literature with ease from one reliable source

## Corporates

The brightest minds and innovators across the globe rely on Inspec's broad scope and significant coverage of scientific data to move research forward and remain nimble in the business marketplace. Forward thinking companies who can't afford to scale back on research or waste time with non-creditable sources depend on Inspec's accuracy and directness to get critical answers and information. Access to scientific intelligence within Inspec is fundamental for researchers and information professionals who need to develop competitive intelligence in the blink of an eye.

### Benefits: Inspec helps corporate researchers to:

- Keep up to date with industry trends to stay competitive
- Target in on key information using controlled specialized search fields
- Track publications of competitors
- Find experts in the field

## Patent Researchers

Researchers can search over 100 years worth of prior art records from the world's technical and scientific literature when searching Inspec and the Inspec Archive. Access to this critical information enables patent searchers to locate prior publications for patent novelty searches, and guards against troublesome validity attacks and opposition searches. Patent researchers can navigate through prior research to discover new possibilities.

### Benefits: Inspec helps patent researchers to:

- Search non-patent literature to defend or challenge current patents
- Locate prior art
- Search using IPC codes
- Access state-of-the-art reviews via Inspec treatment codes
- Discover sleeping beauties
- Find out who's who
- Gain competitor intelligence
- Avoid re-inventing the wheel
- Solve technical problems
- Identify potential licensees
- Patent documents within Inspec



# Inspec Archive 1898 - 1968

The Inspec Archive file complements the main Inspec database by extending coverage from 1898 - 1968. It represents the digitized version of the original Science Abstracts series:

## Science Abstracts (1898 – 1902)

Science Abstracts: A – Physics Abstracts (1903 – 1968)

Science Abstracts: B – Electrical Engineering Abstracts (1903 – 1965)

Science Abstracts: B – Electrical & Electronics Abstracts (1966 – 1968)

Science Abstracts: C – Control Abstracts (1966 – 1968)

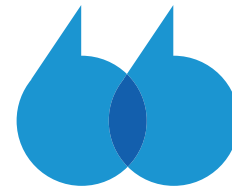
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### The Inspec Archive contains:

- over 873,700 indexed abstracts to journal articles, conference proceedings, books, reports and dissertations
- abstracts that are much longer than present day records and often contain diagrams and complex mathematical proofs
- tables, graphs and figures from the original source document in many of the earlier records
- the original indexing and classifications
- enhancements to the indexing in the form of current day
- Inspec Thesaurus terms and Classification codes

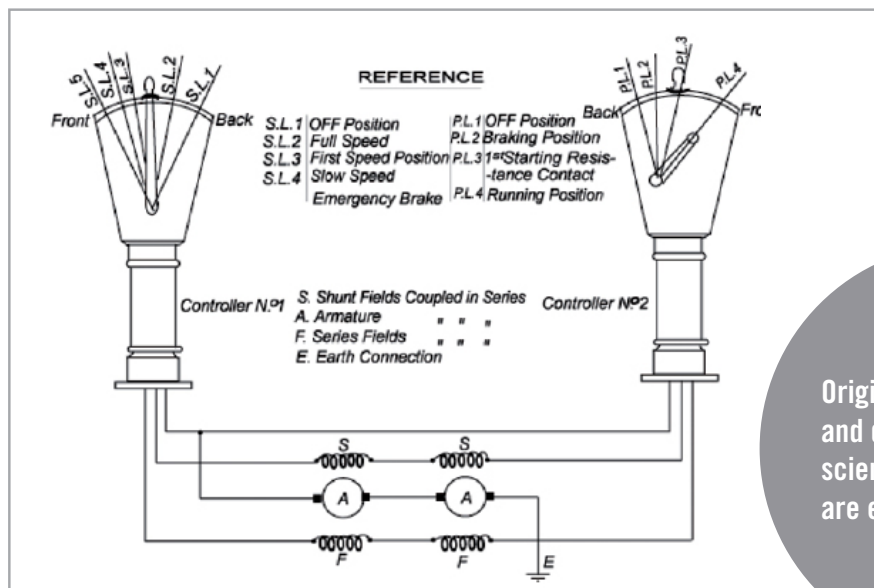
## Benefits

The Inspec Archive makes it easy to locate references to historic research and engineering breakthroughs from thousands of scientists and engineers, including Nobel prize winners such as Marie Curie, Albert Einstein and Guglielmo Marconi. It also gives access to often forgotten works (sometimes known as ‘Sleeping Beauties’) that may be of use in assessing the validity of current patents. An idea suggested many years ago that was not developed then may be of relevance today.



*We are extremely pleased with the level of detail and reporting analysis available in Inspec. This one source allows our researchers to analyse data and refine search strategies all within one easy to use research tool.*

Paul Mendoza, Digital Library Coordinator,  
Mexican Institute of Petroleum, MX



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Information can be located online at [www.theiet.org/resources/inspec/products/aids](http://www.theiet.org/resources/inspec/products/aids)

#### ■ Inspec Thesaurus

As well as listing the controlled terms and lead-ins or cross-reference terms, the Inspec Thesaurus gives further help by showing the relationship between terms, the dates on which they were added and the terms in use before these dates. The Thesaurus contains over 9,000 preferred terms.

#### ■ Inspec Classification

The Inspec Classification shows the period of use of each code and, where appropriate, indicates codes that should be used when searching the Inspec database for references prior to that date. An index containing over 5,500 entries forms an integral part of the publication.

#### ■ List of Journals

A useful reference to the serial publications covered by the Inspec database, including the dates, frequency and publishers of each title.



### Indexing

Inspec has many value added features to ensure fast and accurate search results. Learn more about using these special index fields including the Inspec Thesaurus, Classification, numerical indexing and much more.

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- Inspec Archive journals listed by country
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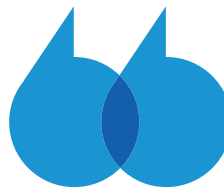
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Information can be located online at [www.theiet.org/resources/inspec/support/docs](http://www.theiet.org/resources/inspec/support/docs)



*If Inspec were just for physics, I'd still love it because it covers the fields so well and offers unique precision for end-users and librarians alike. But, since it integrates international coverage of physics, electrical engineering and computing, it's our go-to resource for grad and post-grad researchers, and even advanced undergraduates, with interdisciplinary and core discovery needs. Grad students' eyes light up when they realize they can refine results by document type! And non-scientist library staff love the extensive thesaurus.*

Emily L. Poworoznek, Associate Professor/  
Engineering & Physical Sciences Librarian,  
University of New Hampshire



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