This research guide identifies **selected** Print and Electronic Resources for Prosthetics & Orthotics Technology in the BCIT Library and on the Internet. If you do not find the information you need, please ask a reference librarian for assistance.

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BOOKS

You can browse material in the catalogue or shelves in the following ranges:

QM QP 34-44 QP 301-310 R 856-857 RB 113 RC 77.5 RC 346-429 RC 925-935 RD 553 RD 553 RD 557-563 RD 680-688 RD 701-811 RD 755-757 RD 756 RM 930-950 TA 401-492 TA 418.9 C TA 455 P5 TK TK 454	Amputations Surgery - Extremities Surgery - Locomotor System Orthopedics Orthopedic Apparatus and Appliances Artificial Limbs Rehabilitation Materials Science Composite Materials Plastics Electrical Engineering Electric Circuits
TK 454	Electric Circuits
	Electronic Circuits
TP 1150-1151	Plastic Molding and Casting

Browse our eBooks at

http://www.lib.bcit.ca/eResources/eBooks.shtml from CRC Engineering and Knovel .

FINDING BOOKS AND VIDEOS IN THE LIBRARY CATALOGUE

Search the BCIT library catalogue for books by either:

- the title or author of the book, if you know them
- **keywords**, to see what the Library has in this area, or
- the subject heading (The Library of Congress Subject Headings (a set of five red volumes located in the Reference area near the terminals) is a guide to subject terms used in the catalogue.)

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The following is a list of selected **subject headings** that can be searched in our catalogue.

Amputation Joints
Amputees Kinesiology
Arm Knee
Artificial arms Leg
Artificial legs Materials

Artificial limbs Medical instruments and

Biomechanics apparatus

Biomedical engineering Medical rehabilitation
Biomedical materials Movement disorders
Bones Multiple sclerosis

Carbon fibers Muscles

Children with disabilities Musculoskeletal system

Composite materials

Diabetes

Electric circuits

Electromyography

Nervous system
Orthopedic
Orthopedics
Plastics

Electronic circuits Plastics -- Molding Electronics People with disabilities

Extremities (Anatomy) Poliomyelitis

Fibrous composites Polymeric composites

Foot Polymers

Fractures Physiology, Pathological

Gait in humans Prosthesis
Hand Scoliosis
Human anatomy Spina bifida
Human engineering Spine

Human mechanics Thermoplastics

Injection molding of plastics

Books can also be located by searching these same subject headings in Outlook Online - Catalogue of BC Public, College & Institute Libraries or other libraries

(http://www.lib.bcit.ca/catalogue/other libraries.shtml).

Some examples:

Amputations And Prosthetics: A Case Study Approach

Stacks RD 553 M425 2002

Anatomy & Physiology Stacks QP 34.5 T49 2003 **Bones & Joints**

Video QP 88.2 B66 1995

Basic Biomechanics Of The Musculoskeletal System

Res QP 303 B375 2001

Composite Materials : Design And Applications

Stacks TA 418.9 C6G39 2003

Electric Circuits Fundamentals Stacks TK 454 F559 2001

Introductory DC/AC Electronics Stacks TK 7816 C653 2005

Living With Spina Bifida: A Guide For Families And Professionals

Stacks RJ 496 S74 S26 1997

Orthotics And Prosthetics In Rehabilitation

Stacks RD 755 L87 2000

Prosthetics And Orthotics: Lower Limb And Spinal

Stacks RD 756.4 S49 2002

Recommendations On The Designation Of Prosthetics And Orthotics

Pam PAM 555811

DICTIONARIES AND ENCYCLOPEDIAS

Access Science includes McGraw-Hill Encyclopedia of Science and Technology and McGraw-Hill Dictionary of Scientific and Technical Terms. (http://o-www.accessscience.com.innopac.lib.bcit.ca/server-java/Arknoid/science/AS)

Black's Medical Dictionary Ref R 121 B598 1999 Stacks R 121 B598 1987

Dorland's Illustrated Medical Dictionary

Ref R 121 D73 2003 Stacks R 121 D73 2000

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Encyclopedia of Materials - Science & Technology

(eBook)

(http://0-www.elsevier.com.innopac.lib.bcit.ca/emsat/)

Gale Encyclopedia of Medicine Ref RC 41 G35 2002

Stacks RC 41 G35 1999

Melloni's illustrated medical dictionary

Stacks R 121 D76 2002

Wiley Electrical And Electronics Engineering Dictionary

Ref TK 9 K39 2004

HANDBOOKS AND MANUALS

Atlas of amputations and limb deficiencies : surgical, prosthetic, and rehabilitation principles

Stacks RD 553 A87 2004

Atlas Of Limb Prosthetics : Surgical, Prosthetic, And Rehabilitation Principles.

Stacks RD 756 A38 1992

Atlas Of Orthotics

Stacks RD 755 A43 1985

Biomechanical Systems: Techniques & Applications, Vol. III, Musculoskeletal Models & Techniques (Ebook) (http://o-

www.engnetbase.com.innopac.lib.bcit.ca/ejournals/books/book_sum mary/summary.asp?id=479)

Biomedical Technology And Devices Handbook (eBook) (http://0-

www.engnetbase.com.innopac.lib.bcit.ca/ejournals/books/book_sum mary/summary.asp?id=1181)

Contemporary Biomaterials - Material and Host Response, Clinical Applications, New Technology and Legal Aspects (eBook) (http://o-www.knovel.com.innopac.lib.bcit.ca/knovel2/Toc.jsp?BookID=774)

Current Medical Diagnosis & Treatment

Ref RC 71 A14 2004

Electrician's Calculations Manual

Stacks TK 151 F74 2005

The Gait Workbook : A Practical Guide To Clinical Gait Analysis

Stacks QP 310 W3B78 1998

Grant's Atlas Of Anatomy

Ref QM 25 G7 1999,

Stacks QM 25 G7 1991

Handbook Of Materials Selection

Stacks TA 403.4 H368 2002

Available as Ebook:

http://0-

www.knovel.com.innopac.lib.bcit.ca/knovel2/Toc.jsp?SpaceID=161&

BookID=1058

Handbook Of Orthopaedic Rehabilitation

Stacks RD 799 H36 1996

Manual Of Structural Kinesiology

Stacks QP 303 T43 1998

Merck Manual Of Diagnosis And Therapy

Ref RC 55 M4 1999

Available as eBook:

http://www.merck.com/mrkshared/mmanual/home.jsp

Pathology For The Health-Related Professions

Stacks RB 25 D26 2000

Pathophysiology: Concepts And Applications For Health Care

Professionals

Res RB 113 N69 2004

Practical Electromyography

Stacks RC 77.5 L52 1997

Resource Handbook of Electronics (Ebook)

(hhttp://0-

www.engnetbase.com.innopac.lib.bcit.ca/ejournals/books/book_sum

mary/summary.asp?id=424)

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Strength Of Materials In Orthotic And Prosthetic Design Stacks R 857 M3L86 1996

Thermoforming: A Practical Guide Stacks TP 1150 S3713 2001

STANDARDS AND GUIDELINES

Canons of Ethics (http://www.abcop.org/Canons_of_Ethics.asp) and Technicians Book of Rules

(http://www.abcop.org/Assets/PDF/TechnicianBookOfRules.pdf) from the American Board for Certification in Orthotics and Prosthetics.

Guidelines for Best Practice (http://www.bapo.com//Publications.php) from the B.A.P.O.

Prosthetics and orthotics: terminology, definitions, and identification: rehabilitation technology

Standards CSA Z323.2.1-M1982 – Canadian Standards

Association.

DIRECTORIES

Canadian Board for Certification of Prosthetists and Orthotists - Accredited Facilities (http://www.pando.ca/faciliti.htm)

Canadian Healthcare Industry Manufacturers Directory Ref R 856 A4C36 2004

Health Devices Sourcebook Ref R 856 H434

Red Book Online - community, social and government agencies and services across the Lower Mainland

(http://www2.vpl.vancouver.bc.ca/DBs/Redbook/htmlPgs/home.html)

RESEARCH GUIDES

B.C.I.T. Library has produced others guides that may be helpful for students of prosthetics & orthotics These are located in print form in the reference area of the Library, or on the website under Research Guides.

Citation Builders and Style Guides

Diseases or Syndromes

Health Engineering Journals

Health Sciences Journals

Plastics

Chemistry

Communications

Math

Physics

JOURNALS

SELECTED JOURNALS

The library subscribes to some prosthetics & orthotics technology journals. Journals (magazines, journals, newspapers, etc.) contain information such as review articles, original research, and news from the scientific community. Journal articles can be found by searching in one of the electronic databases available at our library.

The following is a list of selected prosthetics & orthotics technology journals owned by the BCIT Library or freely available on the Internet

Biomedical Instrumentation & Technology Vol. 23, no. 1 (Jan./Feb. 1989)-

Critical Reviews In Physical And Rehabilitation Medicine (eJournal 2002-)

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(http://www.lib.bcit.ca/eResources/eJournals/?t=k&s=Critical+Revie ws+in+Physical+&+Rehabilitation+Medicine)

Journal Of Applied Biomechanics (eJournal 1997-) (http://www.lib.bcit.ca/eResources/eJournals/?t=k&s=Journal+of+applied+biomechanics+)

Journal Of Bone And Joint Surgery (eJournal 2000-) (http://www.lib.bcit.ca/eResources/eJournals/?t=k&s=Journal+of+bone+and+joint+surgery+)

Journal Of Prosthetics And Orthotics Vol. 1, no. 1 (Oct. 1988)-(Also available online: 1990- (2 year delay)) (http://www.oandp.org/jpo/)

Journal Of Rehabilitation Research And Development v.23:no.4(1986:Oct.)- (Also available online: 1990-) (http://www.lib.bcit.ca/eResources/eJournals/?t=k&s=Journal+of+reh abilitation+research+and+development)

Prosthetics And Orthotics International v.9(1985)-

In addition to those listed above, the library owns a number of key journals in general medicine (such as the Journal of the American Medical Association [JAMA], Lancet and New England Journal of Medicine).

FINDING JOURNAL ARTICLES

ELECTRONIC DATABASES

Electronic Databases are available on the library network (http://www.lib.bcit.ca/eResources/databases/). Most are available from remote locations using the login and password.

Databases provide references to journal articles, newsletters, and technical reports. They usually contain information such as the title, author, periodical source, and the volume and page numbers of the reference. Some indexes also provide abstracts or the full text of the article.

To locate journal articles, search in a subject database. Enter the key concepts that you are seeking, and combine terms you would like to find in the same article. For assistance with searching, please ask a Librarian at the reference desk.

The following databases may be used to find journal articles on prosthetics & orthotics technology topics. They are:

MEDLINE

National Library of Medicine provides MEDLINE through the PubMed service at no charge.

(http://www.ncbi.nlm.nih.gov/entrez/query.fcgi)

Updated: weekly (1966-current)

Indexes and abstracts all of the major medical literature. MEDLINE is by far the most widely used electronic database of medical literature. The type of information contained in MEDLINE ranges from the basic biomedical sciences like anatomy, physiology, biochemistry to clinical information outlining the nature and course of disease or injury, as well as its treatment. Other aspects of medicine covered by the database are: public health, health promotion, bioethics, medical education, legal aspects of medical practice, the nature of health science professions, etc. It covers 3,600 journals published internationally.

PubMed also provides indexing for some journals in addition to those indexed in MEDLINE and a collection of full-text journals in PubMed Central (http://www.pubmedcentral.nih.gov/).

MEDLINE is also available through the Library

(http://www.lib.bcit.ca/eResources/databases/subject.php?subject=H ealth) from:

Ovid - sophisticated search capabilities.

EBSCOhost - has full-text journal not available through other services

Cambridge Scientific Abstracts

Health Source - Contains nearly 540 scholarly full text journals focusing on many medical disciplines. Also featured are abstracts and indexing for over 570 journals.

CINAHL - Cumulative Index to Nursing & Allied Health - Provides authoritative coverage of the literature in nursing and allied health (including environmental health), with citations and abstracts to

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articles from over 600 journals, as well as from pamphlets, books, dissertations, software packages, and audio-visual programs.

Applied Science and Technology Abstracts (with Proquest Science Journals) Includes some full text documents.

Applied Science and Technology Index

Canadian Research Index - Indexes Canadian government and research literature covering all levels of government in Canada, as well as institutions receiving research grants. Includes some links to full-text.

El Compendex - Engineering Village 2 comprehensive interdisciplinary engineering database.

REHABDATA (http://www.naric.com/research/rehab/) – from the National Rehabilitation Information Center.

Google Scholar (http://scholar.google.com/) and Scirus (http://www.scirus.com/) both provide access to scholarly articles on a variety of subjects.

WEB SITES

The following are some starting points for exploring the Internet for environmental health information.

Always remember that no source of information found on the Internet (or anywhere else) should be trusted at face value without first determining who the author and sponsoring organization are and whether they are qualified to write on the subject. This is especially true in the medical sciences, where proper training is critical and faulty information can be lethal.

PROSTHETICS & ORTHOTICS RELATED ORGANIZATIONS & ASSOCIATIONS

These are just a few of the many organizational home pages related to prosthetics & orthotics. All of these pages provide information not only about the goals, publications, programs, and meetings of the organizations, but also present links to the best environmental health resources on the Internet.

Canadian

C.A.P.O. - Canadian Association of Prosthetists and Orthotists (http://www.pando.ca/)

C.B.C.P.O. - Canadian Board for Certification of Prosthetists and Orthotists (http://www.pando.ca/)

C.S.B - Canadian Society for Biomechanics (http://www.health.uottawa.ca/biomech/csb/)

I.S.P.O. - International Society for Prosthetics and Orthotics - Canada (http://www.ispo.ca/)

H.E.A.B.C. - Health Employers Association of BC (http://www.heabc.bc.ca/)

War Amps (http://waramps.ca/)

Outside of Canada

A.A.O.P. - American Academy of Orthotists and Prosthetists (http://www.oandp.org/)

A.B.C.. - American Board for Certification in Orthotics and Prosthetics (http://www.abcop.org/)

A.O.P.A. - American Orthotic & Prosthetic Association (http://www.aopanet.org/)

A.C.A. - Amputee Coalition of America (http://www.amputee-coalition.org/)

A.C.P.O.C. - Association of Children's Prosthetic-Orthotic Clinics (http://www.acpoc.org/)

B.O.C. - Board for Orthotist/Prosthetist Certification (http://www.bocusa.org/)

B.A.P.O. - British Association of Prosthetists and Orthotists (http://www.bapo.com/)

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I.S.B. - International Society of Biomechanics (http://www.isbweb.org/)

I.S.P.O. - International Society for Prosthetics and Orthotics (http://www.ispo.ws/)

N.C.O.P.E. - National Commission on Orthotic and Prosthetic Education (http://www.ncope.org/)

N.A.A.O.P. - National Association for the Advancement of Orthotics and Prosthetics

(http://www.oandp.com/resources/organizations/naaop/)

P.F.O.L.A. - Prescription Foot Orthotic Laboratory Association (http://www.pfola.org/)

PROSTHETICS AND ORTHOTICS

Amputee Manuals -

(http://www.oandp.com/resources/patientinfo/manuals/index.htm)

eMedicine Journal - Physical Medicine And Rehabilitation (http://www.emedicine.com/pmr/) - includes articles on prosthetics and orthotics.

Institute for Rehabilitation Research and Development – Online Education (http://www.irrd.ca/education/) – slide presentations on a variety of topics.

OandP.com (http://www.oandp.com/) – portal site includes products directory, news and links

Prosthetics and Orthotics Online Definitions / Dictionary - illustrated dictionary in English, German and Vietnamese from the I.S.P.O. (http://www.ispo.ca/lexicon/)

Prosthetics History - short history from Northwestern University Prosthetics-Orthotics Center (http://www.nupoc.northwestern.edu/prosHistory.shtml)

ELECTROMYOGRAPHY

Electromyography

(http://moon.ouhsc.edu/dthompso/pk/emg/emg.htm) – from University of Oklahoma

eMedicine Journal Electromyography And Nerve Conduction Studies (http://www.emedicine.com/neuro/ELECTROMYOGRAPHY_AND_N ERVE_CONDUCTION_STUDIES.htm)

TeleEMG.com (http://www.teleemg.com/)

GAIT

CGA Gait Analyzer (http://guardian.curtin.edu.au/cga/analyzer.html) Frequently Asked Questions about Clinical Gait Analysis (http://guardian.curtin.edu.au/cga/faq.html). Two of the many resources at the Clinical Gait Analysis email list (http://guardian.curtin.edu.au/cga/) web site.

Gait Disorders (http://sprojects.mmi.mcgill.ca/gait/) from McGill University

Neurologic Exam – includes section on gait (http://medstat.med.utah.edu/neurologicexam/)

HUMAN ANATOMY

American Medical Association Atlas of the Body (http://www.ama-assn.org/ama/pub/category/7140.html)

Cambridge Anatomy, Functional Architecture Of The Body (http://www.anat.cam.ac.uk/pages/fab//introduction.htm)

GetBodySmart (http://www.getbodysmart.com/)

Virtual Hospital Anatomy (http://www.vh.org/navigation/vh/topics/adult_provider_anatomy.html)

ORTHOPEDICS AND BIOMECHANICS

Orthopaedic Biomechanics (http://www.orthobiomech.info/) – includes information and links.

Orthoteers Orthopaedic Education Resource - (http://www.orthoteers.co.uk/)

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3D Joint Kinematics On-Line -

(http://www.biomechanics.psu.edu/tutorials/kinematics.html)

Wheeless' Textbook of Orthopaedics full textbook with over 5,000 images from Duke University. (http://www.wheelessonline.com/)

NEWSLETTERS AND MAGAZINES

BioMechanics Magazine Online (http://www.biomech.com/)

O&P Business News and O&P World

(http://www.oandpbiznews.com/)

The O&P Edge (http://www.oandp.com/edge/)

Orthopedic Technology Review

(http://www.orthopedictechreview.com/)

Ortholetter (enewsletter 2002-) Newsletter on orthopaedic technology in low income countries published twice a year by the International Society for Prosthetics and Orthotics, in collaboration with the World Health Organization.

(http://home.ica.net/%7Ecocinc/OrthoLetFront.html)

EDUCATIONAL AND RESEARCH INSTITUTIONS

B.C.I.T - Prosthetics and Orthotics

(http://www.bcit.ca/health/prosthetics/)

George Brown College Prosthetic & Orthotic Programs

(http://home.ica.net/~cocinc/)

Institute for Rehabilitation Research and Development - in Ottawa (http://www.irrd.ca/)

Northwestern University Prosthetics-Orthotics Center

(http://www.nupoc.northwestern.edu/)

Prosthetics Research Study - Seattle based non-profit organization (http://www.prs-research.org/)

S.F.U. - School of Kinesiology (http://fas.sfu.ca/kin/)

U.B.C. - Biomechanics Lab (http://www.hkin.educ.ubc.ca/biomech/)

U.B.C. - School of Human Kinetics (http://www.hkin.educ.ubc.ca/)

MEDICAL DICTIONARIES AND ENCYCLOPEDIAS

MedBioWorld Online Medical & Bioscience Dictionaries, Glossaries and Terminologies

(http://www.medbioworld.com/advice/dict.html)

Provides links to online medical and science dictionaries.

Medical Dictionaries Online (http://www.online-

dictionary.net/medical/index.htm)

Provides links to free online medical dictionaries.

MedlinePlus Medical Encyclopedia

(http://www.nlm.nih.gov/medlineplus/encyclopedia.html)

Merriam-Webster Medical Dictionary

(http://www.nlm.nih.gov/medlineplus/mplusdictionary.html)

LINK DIRECTORIES

BCIT Library Prosthetics and Orthotics links (http://www.lib.bcit.ca/iResources/?catID=183)

Biomaterials Links (http://biomed.tamu.edu/biomaterials/)

Health on the Net (HON): MedHunt (http://www.hon.ch/MedHunt/) search engine for health information.

MedLinePlus Amputees

(http://www.nlm.nih.gov/medlineplus/amputees.html)

MedBioWorld (http://www.medbioworld.com/)

large medical and bioscience resource directory

MedWeb (http://www.MedWeb.Emory.Edu/MedWeb/)

links to guides, sites, journals, organisations, etc.

OMNI (Organising Medical Networked Information)

(http://omni.ac.uk/) - evaluated links.

BP - 04/2005

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