

บทที่ 4

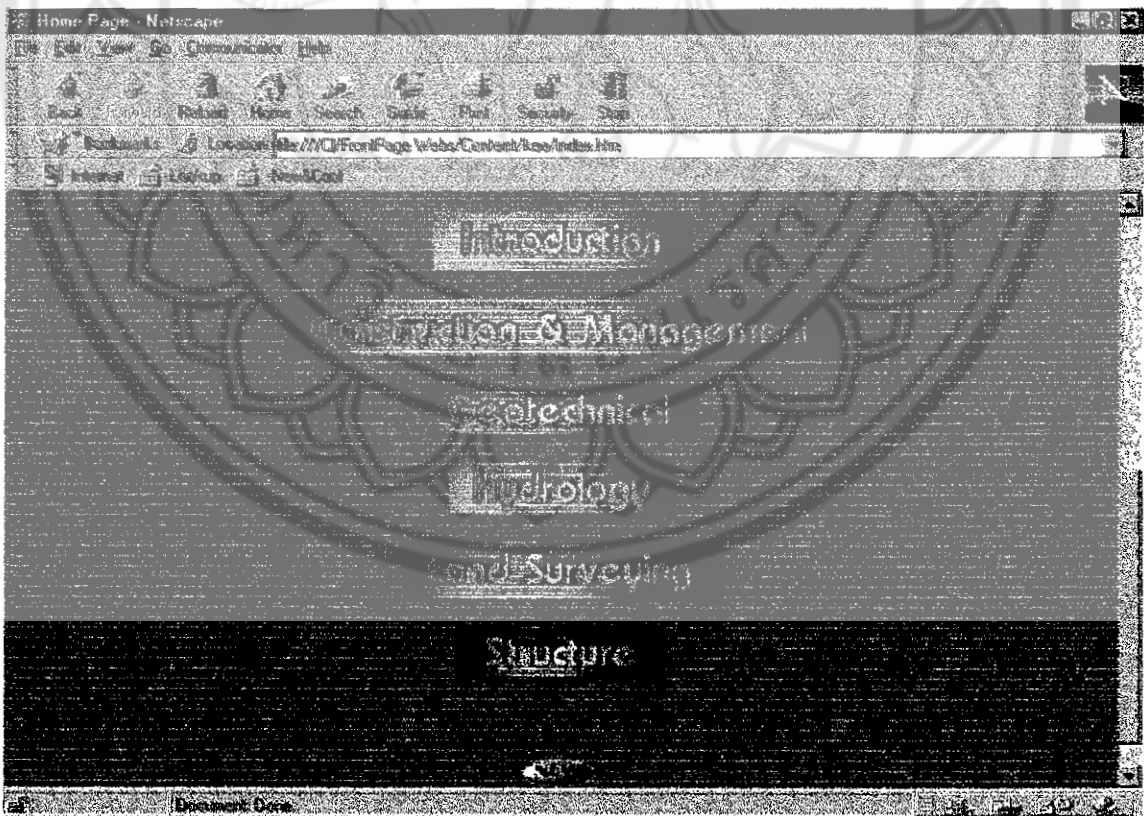
ผลการวิจัย

ผลของการสืบค้นข้อมูลต่างๆ โดยใช้ทั้งการดัชนี (Index) และจาก Search Engine จะได้ Web Site ทั้งหมด 30 Web Site จากทั้งหมดกว่า 100 Web Site ที่ได้สืบค้นมา โดยแยกตามสาขาค้างนี้

➤ Construction & Management	5	Web Site
➤ Geotechnical	7	Web Site
➤ Hydrology	5	Web Site
➤ Land Surveying	5	Web Site
➤ Structure	8	Web Site

โดยการแสดงผลจะแบ่งออกเป็น 2 ส่วนคือ

1. แสดงเป็น Web Page : **Civil Engineering Resources** โดยได้แสดงบทคัดย่อของแต่ละ Web Site ไว้เป็นภาษาอังกฤษ และได้บอก URL เพื่อเป็นการบอกถึง Web Page หลักของแต่ละเรื่องไว้ด้วย ทั้งนี้เพื่อเป็นการสะดวกต่อผู้ที่ต้องการทราบต้นกำเนิดของ Web Site นั้นๆ โดยได้แสดงไว้ใน ภาพที่ 4.1
2. แสดงเป็นภาษา HTML ซึ่งเป็นเบื้องหลัง Web Page ที่เป็นภาษา ในแต่ละ Web Page โดยได้บรรจุไว้ในภาคผนวก ข



ภาพที่ 4.1 : แสดงผล Web Page : index.htm

Introduction

The Civil Engineering Resource is a web site which present information about Civil Engineering. This web site has combined a lot of useful knowledge's which involves to Civil Engineering. Education that can be devoid into 5 section :



Construction &
Management

Geotechnical

Hydrology

Land Surveying

Structure

Our purposes want to use the Civil Engineering Resource as a Search Engine for searching the information and to emphasize learning from experiments in laboratory , research , case study as well the fundamental knowledge in many parts of Civil Engineering.

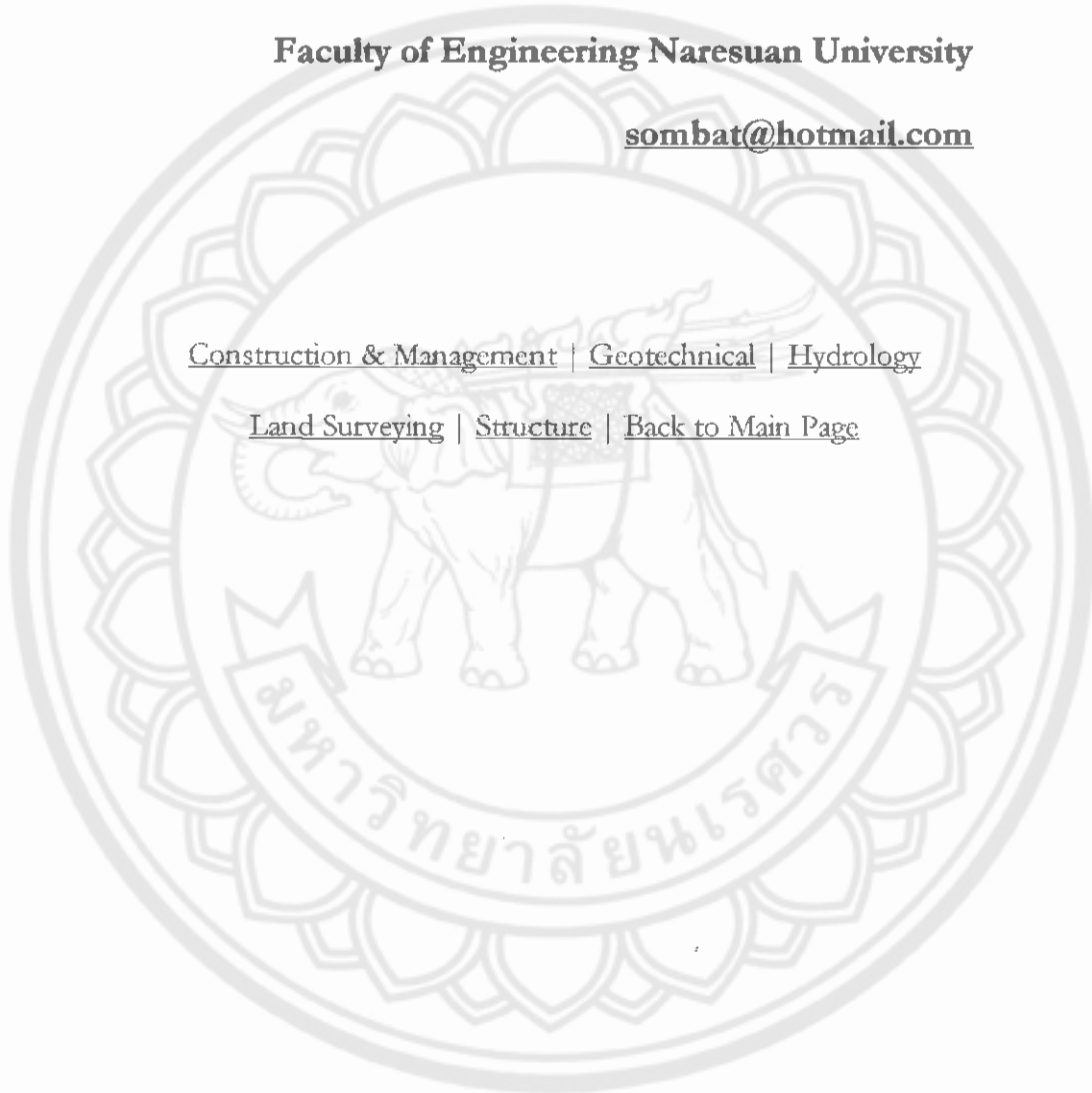
We wish this Civil Engineering Resource would be useful to every visitors who want to know about Civil Engineering. If you have encountered anything which incorrect an error in this web site , don't hesitate to inform me.

Faculty of Engineering Naresuan University

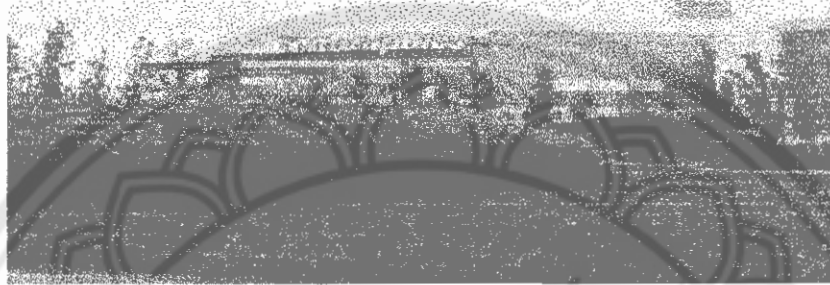
sombat@hotmail.com

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Construction & Management



● *Internet Center for the Construction Industry : Building Web*

<http://www.buildingweb.com/>

- **Construction Products**
- **Professional Service**
- **Association-Council-Institute**
- **Civil & Structural Engineering**

● *Engineering & Construction Division : U.S. Army Corps of Engineering's*

<http://www.hq.usace.army.mil/cemp/mainmp.htm>

- **Construction and Design Branch**
- **Cost Engineering & Program Formulation Branch**
- **Medical Facilities Office**
- **Architect and Master Planning Team**

● **Value Engineering Branch**

● **Guide to NIST :**

http://www.nist.gov/public_affairs/guide/

● **Materials Science and Engineering Laboratory**

● **Building and Fire Research**

● **Information Technology Laboratory**

● **The Construction Specifications Institute:**

<http://www.csinet.org/>

● **Construction Specifier Index :**

<http://www.csinet.org/specify/csindex/csindex.htm>

**This Index encompasses the entire listing of features ,
department , and columns published in the Construction &
Management**

● **Concrete Block Insulating System : CBIS**

<http://www.cbisinc.com/>

**Property , Type , Design of Concrete Block Insulating
System for Energy Efficiency and**

● **Modern Masonry**

● **Korfill Insert**

 **ICON Insert**

 **HI-R Wall System**

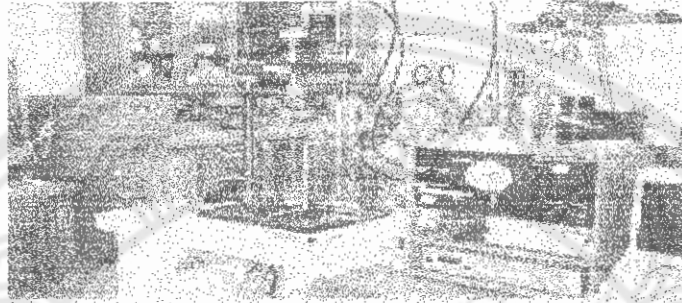


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Geotechnical



● *Selected Research Project for Geotechnical: Northern University*

<http://www.civil.mvu.edu/geotech/research.htm>

- **Blast Vibration Analysis**
- **Predicting Field Behavior of a Braced Cut in Clay**
- **Fracture Propagation**
- **Plane Strain Compression Device**
- **Blast Densification of Sand**
- **Physical Chemistry of Waste in Soil**
- **Thickened Slurry Disposal**
- **Pile Load Testing Without a Load Frame**
- **Modeling and Analysis of Mining-Induced Subsidence**
- **Nation Geotechnical Experimentation Site**

● **Nondestructive Evaluation of Deep Foundation**

● **Failure Processes in Soil**

● **Fault Grouge Constitutive Responses**

● **Air Sparring/Soil Vapor Extraction for Contaminated Site**

● **Penetration of Clay Soil by Chlorinated Solvents**

● **Time Domain Reflectometry**

● *Geotechnical Laboratory : Delft University of Technology*

http://dutgeo.ct.tudelft.nl/home_e.htm

The Geotechnical Laboratory is a section of the Faculty of Engineering and Technical Geosciences and is organized around the chairs of Geomechanics , Ground Water Mechanics and Foundation Engineering

● *The Bechtel Geotechnical Laboratory : Purdur University*

<http://ce.www.ecn.purdue.edu/~geonwww/LAB/>

● **Consolidation Frame**

● **Permeability Testing**

● **Cyclic Triaxial Testing System**

● **MTS Triaxial Testing Machine**

● **Resonant Column Device**

● **Direct Shear Apparatus**

● **For Information on Lab Facilities at Purdue University**

● **Soil Mechanics and Geotechnical Engineering Research : Oxford University**

<http://www-civils.eng.ox.ac.uk/soils.htm>

● **Offshore Foundation**

● **Institute Testing**

● **Trenches Technology**

● **Reinforced Soil**

● **Soft Clays**

● **Unsaturated Soils**

● **Theoretical Modeling of Soils**

● **Settlement Damages**

● **Slope Design Home Page:**

<http://www.dur.ac.uk/~des0www4/cal/slopes/index.html>

About Slope Stability Analysis , Remedial and Corrective Measures for Failing Slopes , Slope in Real World , and Sample Slope Stability Problems.

● **Vibration and Waves Animations :**

<http://apollo.gmi.edu/~drussell/Demos.html>

The Links below contain animations which visualize certain concepts concerning Vibration and Waves . The choice of

animations coincides with topics covered in the course
PHYS-230 , Physics III : Waves , and PHYS-580 ,
Fundamentals of Acoustics.


● **Vibration**

● **Mechanical Waves (Acoustics)**

● **Electromagnetic Waves (Optics)**

● ***Soil Dynamics and Geotechnical Earthquake Engineering : Princeton University***

<http://www.ceor.princeton.edu/~radu/recpub.htm>

 **Recent publication relate to research in Soil Dynamics and Geotechnical Earthquake Engineering ;Spatial Variability of Soil Properties , Constitutive Relations for Soil Materials , Centrifuge Validation of a Numerical Model for Dynamic Soil Liquefaction ,etc.**

● ***The Shilstone Companies :***

<http://www.shilstone.com/public/CIVLIST.HTM>

The list of civil engineering resources is brought to you by The Shilstone Companies. We also have online a list of concrete-related design and construction association.

● **BBSs**

● **Mailing lists**

● **University web pages**

● **Non-university web pages**

● **Telnet sites**

● **FTP site**

● **gopher sites**

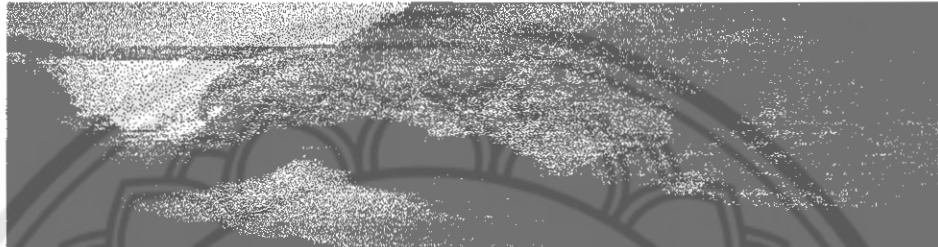
● **Usenet newsgroups**

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Hydrology



● Technical Service Center : U.S. Department of the Interior Bureau of Reclamation

<http://www.usbr.gov/tsc/>

The Technical Service center provides Reclamation - and Interior Department - wide scientific , applied research , and engineering services related to water resources management support ; for board areas of water and power resources management , including geotechnical , dam safty , civil engineering.

● National Performance of Dam Programe : NPDP

<http://npdp.stanford.edu/front.html>

About the U.S. National Inventory of Dams

● **Dam Trivia**

● **Dam Types and Functions**

● **Dam Safety in the U.S.**


● **Dam Safety in Canada**

and web link to other Engineering Site

 [Hoover Dam : Department of the Interior Bureau of Reclamation Lower Colorado Region](#)

<http://www.hooverdam.com/>

Hoover Dam is one of Reclamation's multipurpose projects on the the Colorado River. Hoover Dam's authorized purposes are:"flood control ; improvement of navigation and regulation of the Colorado River ; storage and delivery of Colorado River waters for reclamation of public lands.

 [Soil and Water Science Department : University of Florida](#)

<http://gw.ifas.ufl.edu/~soilweb/soilhome.htm#water>

About Hydrology , Ground Water Information and Big Link List for Hydrology.

 [Hydrology Modelling Resource :](#)

<http://www.hydromodel.com/duan/hydrology/>

 **Hydrology Resource**

 **Hydrology Models**

 **Research Groups**

 **GIS and Remote Sensing**

 **Data Archive**

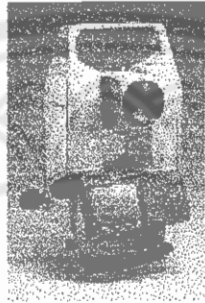
 **WWW general Resources**

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Land Surveying



● Hydro Graphy and Land Surveying

<http://www.pcug.co.uk/~hydro/>

The Hydrografix Overseas Constancy Service provides current service status information on hydrographic and land surveying in a number of different ways.

● Rest of the World Database

● Global Survey Database

● U.S. Survey Database

● Global Positioning Systems

● Surveying Program - Main Page : PENNSTATE

<http://surveying.wb.psu.edu/>

● Surveying , A Challenging and diverse Field

● Projects

● **Undulation Map of Pennsylvania**

● **Deflection of the Vertical**

● *Flatirons Surveying Inc.*

<http://www.flatironsurv.com/>

About the Global Position System (GPS) , Accuracy and Precision , Basic Surveying Theory , Common Types of Surveys and Frequently asked question.

● *Land Surveying :*

<http://users.web.lightspeed.net/~rolsen/survey.htm>

● **Boundary Surveys**

● **Property line Adjustments**

● **Parcel Maps**

● *Department of Surveying Home Page : University of Otago:*

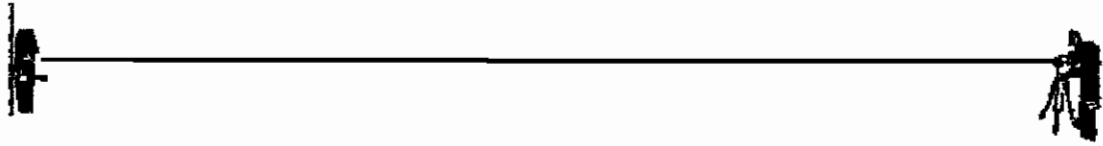
<http://spheroid.otago.ac.nz:808/surveying.htm>

● **Global Positional System (GPS)**

● **Land Surveying**

● **Geographic Information System (GIS)**

and other relate site.



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Structure



● *Structure Lab Home Page : University of Houston*

<http://structures.dt.uh.edu/>

**About Structural Analysis & Design . Interesting thing is
Structural Repair of a Reinforce Concrete Beam Using Fiber
- Reinforced Composites.**

● *Structure Research : Oxford University*

<http://www-civils.eng.ox.ac.uk/struct.html>

● **Offshore structures**

● **Earthquakes**

● **Wind - induce vibrations**

● **Small - amplitude vibrations of building**

● *Interaction FEM with Adaptive Mesh Refinement*

<http://www.mugc.cc.monash.edu.au/~asadk/fem.html>

● **AKOF : Asad Khan's Online FE Analysis Page**

● **Test Drive A Finite Element Engine**

● *Research Activities*

<http://www.ibk.baum.ethz.ch/GrpBachmann.html>

● **Nonlinear dynamics analysis of reinforce concrete building**

● **Non seismic response of arch dams including reservoir and foundation**

● **Nonlinear seismic respond of concrete gravity dams including reservoir and foundation**

● **Structures under Pseudodynamic Action**

● **Reinforce concrete structures under cyclic static action**

● **Reinforce concrete structures under cyclic dynamic action**

● **Vibration problems in structures**

● **Torsion and Ductility Demands on Buildings under Seismic Action**

● *Structural Design : Self Designing Structures*

<http://www.edc.ncl.ac.uk/~crerar/sds/sds.html>

The aim of the self designing structures project is to develop Finite Element Based tools for finding ' optimal' structure solution to initial layout and redesign problems.

● Step's Structural Engineering Exhibit :

<http://www2.wavetech.net/~steph730/struct.htm>

● Reinforce Concrete Parking Building :

<http://www2.wavetech.net/~steph730/internpaper.htm>

This Report describes the processes of deterioration inspection and restoration of Reinforce Concrete Parking Building

● Virtual Engineering Home Page :

<http://www.virtualengineer.com/>

The intent of this site is to provide an information resource for Structural Engineering related topics:

- **Earthquake Information**
- **Building Departments**
- **Analysis & Discussion**
- **Link to Structural Engineering Resource**

● Build a Bridge Resource Teacher 's Guide

<http://www.pbs.org/wgbh/nova/bridge/>

Learn about the four major type of Bridges and then test your knowledge by matching the right location.

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