

2003 1 [ ( ) (○) / ( ) ( ) (○)]

			3	3	1					

1.

(CAAD; Computer Aided Architectural Design)

Design Computation , 가 Representation Design Tools  
 가  
 ,  
 3 가  
 , CAAD 가 .  
 , 가  
 ,  
 Review Comments , (Problem Solving &  
 Decision Making) Resource .

2.

- 가 DATABASE
- 
- CAAD
- Design Computation , ,

3.

- : ( ), (○), / ( )
- : (○), ( ), ( ), / (○), Team Teaching( ),  
 (○), (○), / (○), (○),
- : OHP( ), Slide( ), Video( ), LDP( ), Audio( ), (○),  
 ( ), :

4.

(1)

1, 2, 3, 4

1 (Gerrit Rietveld ' s Red & Blue Chair, Mies Van der Roeh ' s Barcelona Pavillion, Le Corbusier ' s Villa Savoye, Louis I. Kahn ' s Herva Synagogue)

CAAD (Modeling, Mapping, Lighting, Rendering, Animation, HTML, VRML)

5

5 가 ( 가 ) Digital Visualization 가

가. CAAD 가

가. 1, 2, 3, 4 , A4 가 (1500&1200pixel/ 200dpi) (1024&768pixel/ 72dpi)

Computer Rendering 가 ( , Diagram )가 5 (JPG) 가 (C.G. Animation, Movie, HTML, VRML ) Digital Representation Presentation

(2)

1 “ (Portal&DB, Webzine, Architect, Building&Historical)” Portal&DB, Webzine, Architect, Building&Historical 가 Online Resource Directory 가 ARCHIVE 가

2 “ (VIRTUAL REALITY, CYBER SPACE)” High-end (Virtual Reality. Web3D, Interactive Rich-Media)

3 “ ( , , )” 가 ( , , )

(3) 가 가 가 가 , ‘7. ’

5. 가

가(30 %),	가(30 %),	(30 %),	(10 %)
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6.

	/		
1		Chapter 1 Introduction to Digital Design Studio : 1 " (Portal&DB, Webzine, Architect, Building&Historical)"	5,6,2,10
2	/	Chapter 2 Getting Started with Auto CAD & MAX : CAAD	1,3,4,7
	1	" (Portal&DB, Webzine, Architect, Building&Historical)" #1	web
3	/	Chapter 3 Modeling Topics :	1,3,4,7
	1	Digital Visualization Assignment; Gerrit Rietveld ' s Red & Blue Chair	1
4	/	Chapter 4 Advanced Modeling Topics 1 : 1	1,3,4,7
	1	" (Portal&DB, Webzine, Architect, Building&Historical)" #2	web
5	/	Chapter 5 Advanced Modeling Topics 2 : 2	1,3,4,7
	2	Digital Visualization Assignment; Mies Van der Roeh ' s Barcelona Pavillion	1
6		Chapter 6 Advanced Modeling Topics 3 : 3 2 " (VIRTUAL REALITY, CYBER SPACE)"	1,3,4,7
7	/	Chapter 7 Material Topics :	1,3,4,7
	2	" (VIRTUAL REALITY, CYBER SPACE)" #1	web
8	가		5,6,web
	3	Digital Visualization Assignment; Le Corbusier ' s Villa Savoye	1
9	/	Chapter 8 Lighting Topics :	1,3,4,7
	2	" (VIRTUAL REALITY, CYBER SPACE)" #2	web
10		Chapter 9 Camera & Rendering : 3 " ( , , )"	1,3,4,7
11	/	Chapter 10 Merging 3D- Objects : 3D	1,3,4,7
	4	Digital Visualization Assignment; Louis I. Kahn ' s Herva Synagogue	1
12	/	Chapter 11 Animation :	1,3,4,7
	3	" ( , , )" #1	
13	/	Chapter 12 Introduction to Web(HTML) : WEB	web
	5	Architect ' s Unbuilt/Paper/Visionary Projects Digital Visualization #1	
14	/	Chapter 13 Web Based Virtual Reality Topics 1 : 가	web
	3	" ( , , )" #2	
15	/	Chapter 14 Web Based Virtual Reality Topics 2 : 가	web
	5	Architect ' s Unbuilt/Paper/Visionary Projects Digital Visualization #2	
16	가	가	

\* '8. , 'web' '9. .

7.

가 .

(1) : “ ”( 5, 6, 2, 10), “CAAD ”( 1, 3, 4, 7), “ VR ”( ) .

(2) : , 3가 ( ) 5가 ( 1, 3, 4) , ‘4. ’ .

(3) 가 : 가 가 가 .

가 " "

가. 가

“ ”

- 가 , Computer Graphic

- 가 ,

. ( 가 , 5 )

Modal Space, Karl Chu / Animate Form, Greg Lynn / Architecture of the Incomplete, Jesse Reiser + Nanako Umemoto / Liquid Architecture, Nonchi Wang / Interrupted Projections, Neil M. Denari / Mediated Life, Elizabeth Diller + Ricardo Scofidio / Transfomal Architecture, Winka Dubbledam / TransArchitecture-LiquidArchitecture, Marcos Novak / Architecture of Image, Hani Rashid & Lise-Anne Couture / From Complexity to Banal Architecture of the Everyday, Thomas Leeser

가 “ 가”

가. 가

“ 가”가 가

CAAD “On-line Portfolio” 가

. 가

(Site Map), (Drawing/Documentation), (Design Concept/Space Diagram), (Conceptual/Photo-realistic), Schematic Drawing, , Computer Rendering Images...

. 가 Digital Format

- : 800&600pixel

- Hyper Text : (\*.htm), Images(\*.jpg)

- CAD & VR : (\*.dwf), Web3D(Viewpoint;\*mts,\*mtx), Panoramic VR(\*.mov)

- Rich Media : Animation(Flash;\*swf), Movie Clip(\*.asf), Sound(\*.wav)

8.

1	, , , , , 1998	
2	, , , , , 1999	
3	, , , , , 2002	
4	, & , , , 2002	
5	Christian Pongratz, Maria Rita Perbellini, Natural Born CAADesigners: Young American Architects, 2000, Birkahuser	
6	Gerhard Schmitt, Information Architecture; Basis & Future of CAAD, 1999, Birkahuser	
7	Jeremy Birn, Digital Lighting & Rendering, New Riders Publishing, 2000	
8	Cyberspace: the world of digital architecture, 2001	
9	Maia Engeli, Bits And Spaces, 2001	
10	Jerzy Wojtowicz(ed.), Virtual Design Studio, Hong Kong University Press, 1995	

9.

(1) / Portal & DB

	LINKS
International Architectural Database (Portal)	<a href="http://www.archinform.net">www.archinform.net</a>
ARTMUSEUM.NET (ART)	<a href="http://www.artmuseum.net">www.artmuseum.net</a>
ARCHI TOUR	<a href="http://archmedia.yonsei.ac.kr/west">archmedia.yonsei.ac.kr/west</a>
;CRIC (Portal)	<a href="http://www.cric.or.kr">www.cric.or.kr</a>
The Great Buildings Collection (3D Models)	<a href="http://www.greatbuildings.com">www.greatbuildings.com</a>
ArchTech Gallery (Drawing, Photo, Prints)	<a href="http://www.architechgallery.com">www.architechgallery.com</a>
	<a href="http://www.digital-architecture.or.kr">www.digital-architecture.or.kr</a>
DB on Skyscrapers and Tall Structures	<a href="http://www.skyscrapers.com">www.skyscrapers.com</a>
, DB	<a href="http://www.a21.co.kr/goarch/index.html">www.a21.co.kr/goarch/index.html</a>
, DB	<a href="http://artinfo.a21.co.kr/witharch/">artinfo.a21.co.kr/witharch/</a>
, DB	<a href="http://www.archinfo.co.k">www.archinfo.co.k</a>
, DB	<a href="http://www.archibank.co.kr">www.archibank.co.kr</a>
, DB	<a href="http://sound.wonkwang.ac.kr">sound.wonkwang.ac.kr</a>
ARTNET	<a href="http://www.artnet.com">www.artnet.com</a>
MoreHouse, DB	<a href="http://www.morehouse.co.kr">www.morehouse.co.kr</a>
ARCHINED	<a href="http://www.archined.nl">www.archined.nl</a>
Canadian Center for Architecture	<a href="http://www.cca.qc.ca">www.cca.qc.ca</a>
Magnum Photo (PHOTO)	<a href="http://www.magnumphotos.com">www.magnumphotos.com</a>
Getty Images (PHOTO)	<a href="http://creative.gettyimages.com">creative.gettyimages.com</a>
	<a href="http://www.designfile.com">www.designfile.com</a>

	LINKS
ARCHINECT	<a href="http://www.archinect.com">www.archinect.com</a>
Architecture Cafe (Webzine)	<a href="http://www.architecturecafe.com">www.architecturecafe.com</a>
Web Architecture Magazine (Webzine)	<a href="http://web.arch-mag.com">web.arch-mag.com</a>
Edinburgh Contemporary Architecture (Webzine)	<a href="http://www.edinburgharchitecture.co.uk">www.edinburgharchitecture.co.uk</a>
Art And Architecture	<a href="http://www.miolka.com/architecture.htm">www.miolka.com/architecture.htm</a>
Architecture Week (3D Models)	<a href="http://www.architectureweek.com">www.architectureweek.com</a>
ARCHITECTURAL RECORD (Magazine)	<a href="http://www.architecturalrecord.com">www.architecturalrecord.com</a>
Preservation Directory	<a href="http://www.preservationdirectory.com">www.preservationdirectory.com</a>
	<a href="http://www.poar.co.kr">www.poar.co.kr</a>
COMPETITIONS	<a href="http://www.competitions.org">www.competitions.org</a>
ARCHISCOPE	<a href="http://www.archiscope.pe.kr">www.archiscope.pe.kr</a>
US ARCHITECTURE MAGAZINE	<a href="http://www.usarchitecturemag.com">www.usarchitecturemag.com</a>
ARCHITECTURAL REVIEW	<a href="http://www.arplus.com">www.arplus.com</a>
SECTION WEB	<a href="http://www.sectionweb.com">www.sectionweb.com</a>
IDEAMAGAZINE	<a href="http://www.ideamagazine.net">www.ideamagazine.net</a>
DOMUS	<a href="http://www.edidomus.it">www.edidomus.it</a>
DESIGNZINE	<a href="http://www.designzine.com">www.designzine.com</a>
b-e-t-a Architectural Webzine	<a href="http://www.b-e-t-a.net">www.b-e-t-a.net</a>
Architecture Plan Net	<a href="http://www.plannet.com">www.plannet.com</a>
a Weekly dose of Architecture	<a href="http://www.archidose.org">www.archidose.org</a>
The Open Scale	<a href="http://www.openscale.net">www.openscale.net</a>
	<a href="http://www.archinude.com">www.archinude.com</a>
	<a href="http://www.seoulscrap.com">www.seoulscrap.com</a>
Archiforum	<a href="http://www.archiforum.com">www.archiforum.com</a>
" "	<a href="http://www.vmspace.com">www.vmspace.com</a>
ELCROQUIS	<a href="http://www.elcroquis.se">www.elcroquis.se</a>
	<a href="http://www.ar-chi.com">www.ar-chi.com</a>
	<a href="http://www.archiland.co.kr">www.archiland.co.kr</a>
	<a href="http://www.pluszine.co.kr">www.pluszine.co.kr</a>
/	<a href="http://www.civilplus.co.kr">www.civilplus.co.kr</a>
Magazine of Architecture & Technology	<a href="http://www.aplust.net">www.aplust.net</a>
Internet Edition of The Architecture Show Mag	<a href="http://www.archizine.com">www.archizine.com</a>
Harvard Design Magazine	<a href="http://www.gsd.harvard.edu/research/publications/hdm">www.gsd.harvard.edu/research/publications/hdm</a>
Australian:Architecture,Building,Cunstruction,Design	<a href="http://www.infolink.com.au">www.infolink.com.au</a>
WAM; Web Architecture Magazine	<a href="http://web.arch-mag.com">web.arch-mag.com</a>
Design Architecture	<a href="http://www.designarchitecture.com">www.designarchitecture.com</a>
International Mag for Office Architecture	<a href="http://www.office-magx.com">www.office-magx.com</a>
Fram Magazine	<a href="http://www.framemag.com">www.framemag.com</a>
The Architect & Design Network for Asia	<a href="http://www.architectureasia.com">www.architectureasia.com</a>
World Architecture	<a href="http://www.homeplan-it.com">www.homeplan-it.com</a>
Home Renovation	<a href="http://www.worldarchitecture.co">www.worldarchitecture.co</a>
Architectural Record	<a href="http://archrecord.construction.com">archrecord.construction.com</a>
ArchNewsNow	<a href="http://www.archnewsnow.com">www.archnewsnow.com</a>

	LINKS
Alvar Aalto Foundation	<a href="http://www.jkl.fi/aalto/">www.jkl.fi/aalto/</a>
Mies In Berlin; Mies In America, MOMA/Whitney	<a href="http://www.moma.org/mies">www.moma.org/mies</a>
The Changing of the Avant-Garde, MoMA 2002	<a href="http://www.moma.org/gilman">www.moma.org/gilman</a>
The Un-private House Exhibitions	<a href="http://www.moma.org/exhibitions/1999/un-privatehouse">www.moma.org/exhibitions/1999/un-privatehouse</a>
Frank Lloyd Wright Web Guide	<a href="http://www.cypgrp.com/flw/index.html">www.cypgrp.com/flw/index.html</a>
Frank Lloyd Wright at Hull House (Univ. of Illinois at Chicago)	<a href="http://www.uic.edu/jaddams/hull/conference.html">www.uic.edu/jaddams/hull/conference.html</a>
ASYMPTOTE (Hani Rashid)	<a href="http://www.asymtote.net">www.asymtote.net</a>
UNSTUDIO (Ben Van Berkel & Caroline Bos)	<a href="http://www.unstudio.com">www.unstudio.com</a>
Reiser+Umemoto RUR Architecture PC (Jesse Reiser & Nanako Umemoto)	<a href="http://www.reiser-umemoto.com">www.reiser-umemoto.com</a>
Archi Tectonics (Winka Dubbeldam)	<a href="http://www.archi-tectonics.com">www.archi-tectonics.com</a>
( )	<a href="http://www.iroje.com">www.iroje.com</a>
Foster And Partners	<a href="http://www.fosterandpartners.com">www.fosterandpartners.com</a>
MORPHOSIS	<a href="http://www.morphosis.net">www.morphosis.net</a>
DANIEL LIBESKIND	<a href="http://www.daniel-libeskind.com">www.daniel-libeskind.com</a>
MVRDV	<a href="http://www.mvrdv.archined.nl">www.mvrdv.archined.nl</a>
Foreign Office Architects (ALEJANDRO ZAERA-POLO)	<a href="http://www.f-o-a.net">www.f-o-a.net</a>
Office for Metropolitan Architecture (Rem Koolhaas)	<a href="http://www.oma.nl">www.oma.nl</a>
Zaha Hadid	<a href="http://www.zaha-hadid.com">www.zaha-hadid.com</a>
Bentham Crowel Architecken	<a href="http://www.benthamcrowel.nl">www.benthamcrowel.nl</a>
MECANOO	<a href="http://www.mecanoo.nl">www.mecanoo.nl</a>
Boryasky Murphy Architects	<a href="http://www.boyarskymurphy.com">www.boyarskymurphy.com</a>
Renzo Piano Architect	<a href="http://www.rpwf.org">www.rpwf.org</a>
WEST 8	<a href="http://www.west8.nl">www.west8.nl</a>
Richard Rogers Architect	<a href="http://www.richardrogers.co.uk">www.richardrogers.co.uk</a>
Bernard Tschumi	<a href="http://www.tschumi.com">www.tschumi.com</a>
Hopkins	<a href="http://www.hopkins.co.uk">www.hopkins.co.uk</a>
SOM	<a href="http://www.som.com">www.som.com</a>
Eric Owen Moss	<a href="http://www.ericowenmoss.com">www.ericowenmoss.com</a>
Kisho Korokawa	<a href="http://www.kisho.co.jp">www.kisho.co.jp</a>
Gunter Behnisch	<a href="http://www.behnisch.com">www.behnisch.com</a>

## (4) / Building &amp; Historical

	LINKS
Guggenheim Museum In Bilbao	<a href="http://www.guggenheim-bilbao.es">www.guggenheim-bilbao.es</a>
Glessner House Museum	<a href="http://www.glessnerhouse.org">www.glessnerhouse.org</a>
Logan Square Preservation	<a href="http://www.logansquarepreservation.org">www.logansquarepreservation.org</a>
Marktown Historical District, East Chicago, Indiana	<a href="http://www.marktown.org">www.marktown.org</a>
(Viewpoint & Pano VR)	<a href="http://www.dhtec.com/dem/welcomm/">www.dhtec.com/dem/welcomm/</a>
Unity Temple Restoration Foundation	<a href="http://www.unitytemple-utrff.org">www.unitytemple-utrff.org</a>
World Trade Center	<a href="http://www.nytimes.com/magazine">www.nytimes.com/magazine</a>
World Trade Center	<a href="http://www.nymetro.com/wtcdesigns">www.nymetro.com/wtcdesigns</a>
BBC History Vitruval Tours	<a href="http://www.bbc.co.uk/history/multimedia_zone/3ds/index.shtml">www.bbc.co.uk/history/multimedia_zone/3ds/index.shtml</a>
	<a href="http://www.hanok.org">www.hanok.org</a>
	<a href="http://sca.visitseoul.net">sca.visitseoul.net</a>
	<a href="http://conclick.co.kr/tecddata/6.html">conclick.co.kr/tecddata/6.html</a>

## (5) / Organization &amp; Academic

	LINKS
School of Architecture, Columbia Univ	<a href="http://www.arch.columbia.edu">www.arch.columbia.edu</a>
Graduate School of Design, Harvard Uni	<a href="http://www.gsd.harvard.edu">www.gsd.harvard.edu</a>
School of Architecture and Planning, MIT	<a href="http://loohooloo.mit.edu">loohooloo.mit.edu</a>
College Of Architecture, IIT	<a href="http://www.arch.iit.edu">www.arch.iit.edu</a>
School of Architecture, Princeton Univ	<a href="http://www.princeton.edu/~soa/index2.htm">www.princeton.edu/~soa/index2.htm</a>
Architectural Institute Of Japan	<a href="http://www.aij.or.jp">www.aij.or.jp</a>
Royal Insitute Of British Architects	<a href="http://www.riba.org">www.riba.org</a>
Korea Institute Of Registered Architects	<a href="http://www.kira.or.kr">www.kira.or.kr</a>
The American Institute Of Architects	<a href="http://www.aia.org">www.aia.org</a>
The American Institute Of Architecture Students	<a href="http://www.aiasnatl.org">www.aiasnatl.org</a>
The Royal Australian Institute Of Architects	<a href="http://www.architecture.com.au">www.architecture.com.au</a>
Royal Architectural Institute Of Canada	<a href="http://www.raic.org">www.raic.org</a>
Netherlands Architecture Institute	<a href="http://www.nal.nl">www.nal.nl</a>
American Planning Association	<a href="http://www.planning.org">www.planning.org</a>
American Design Drafting Associatioin	<a href="http://www.adda.org">www.adda.org</a>
American Society Of Interior Designers	<a href="http://www.interior.org">www.interior.org</a>
American Society Of Landscape Architects	<a href="http://www.asla.org">www.asla.org</a>
Society Of Architectural Historians	<a href="http://www.sah.org">www.sah.org</a>
Metropolitan Planning Council	<a href="http://www.metroplanning.org">www.metroplanning.org</a>
	<a href="http://www.kaah.or.kr">www.kaah.or.kr</a>

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	LINKS
VIEWPOINT (WEB3D)	www.viewpoint.com
3D MAX & LIGHTSCAPE, Discreet (3D Modeling & Rendering)	www2.discreet.com
3DCAFE (3D Library, Tutorial & TIPS)	www.3dcafe.com
MAX3D (3D Library, Tutorial & TIPS)	max3d.3dlivr.com
SOULBURN	www.soulburn3d.com
LIGHTSCAPE, Autodesk (3D Modeling & Rendering)	www.autodesk.com
ARCHICAD, Graphisoft (2D Drafting & 3D Modeling)	www.graphisoft.com
FORMZ, Autodesk (3D Modeling & Rendering)	www.formz.com
DREAMWEAVER & FLASH, Macromedia (WEB)	www.macromedia.com
PHOTOSHOP, Adobe	<a href="http://www.adobe.com">www.adobe.com</a>
LIGHTSCAPE TIP (3D Tutorial&TIPS)	<a href="http://www.reallight.net">www.reallight.net</a>
EARCHVIEW (GIS)	<a href="http://www.earthview.com">www.earthview.com</a>
SKYLINESOFT (GIS)	<a href="http://www.skylinesoft.com">www.skylinesoft.com</a>
3D (WEB3D)	iworld3d.co.kr
(Interior Coordination)	www.decodream.com
On-line Catalog for Building Components (3D)	www.gdlcentral.com
;the Geometric Description Language (G )	
FORMZ	1 archmedia.yonsei.ac.kr/cadlab
FORMZ	2 archmedia.yonsei.ac.kr/Formz/under.htm
FORMZ	3 www.moyang.co.kr/lecture_formz/
CG Architect	www.cgarchitect.com

(7)

	LINKS
Monoedge Inc.	www.monoedge.com
Sydney Opera House Tourism	www.soh.nsw.gov.au/h/t_virtual_tour_fs1.html
ALEC DESIGN	www.alecng.com
VOLVO	volvoxc90.se
OCULART	www.ocularart.com
GROUP94	www.group94.com
DESIGNCHAPEL	www.designchapel.com
RGA	<a href="http://www.rga.com">www.rga.com</a>
DIGITAL SAPCE AWARDS	www.feidad.org
Art Center nabi	www.nabi.or.kr