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#### **Dream Architecture**

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As building materials and technologies advance, architects are creating new kinds of urban environments. Among the innovations showcased in this book that are contributing to new architectural forms are parametric modeling enabled by computer-aided technology, environmentally friendly building skins, and HOPSCAs – a hybrid building type – that can house hotels, offices, parking, shopping, a convention center, and apartments under one roof. The "dream" buildings in this book reflect a changing architectural and cultural environment, and the processes that turn these concepts from vision to reality will open a new chapter in architectural history.

Many of the architects represented here are addressing themes of developments in structural and material technologies that will allow infinite possibilities in form. Within the new urban landscape of greater scale and complexity, architects must either find appropriate "new textures" or construct new rules.

One imaginative process demonstrated here is the merging of nature and architecture – sometimes accomplished through the use of natural forms, and at other times through materials and levels of energy consumption. A related new process, bionics – the application of biological principles to the design of architectural systems – has been used to streamline buildings and simulate nature.

Yet another process at work today reflects a continuity with Modernism in architecture in which simple forms as well as traditional materials and construction methods cannot disguise the elegance of their conceptual rigor. This choice leads to two contrasting ways to adapt: to "exceed" or to "retreat". Most of the featured projects in this book embody the method of "exceeding". With this approach, architects use height and context to create new urban spectacles. The contrasting strategy is to "retreat" by creating introverted projects that interject a built form of silence and tranquility into the noise and chaos of the city.

We also include examples of comprehensive projects that attempt to reply to the urban question and suggest a future era of »the monumental building as city«. These immense projects can cover several city blocks in which architects strive to find levels of balance between city and street.

By examining the thought processes behind these bold and innovative designs we can formulate some essential questions: how does technology bridge the boundaries between different countries and cultures? Will our cities come to resemble those in science fiction movies? Will the notion of »form follows environment« be the natural successor to »form follows function«? Although we can't answer these questions at present, we hope that merely asking them might provide insights that will shape our views and spur creativity.

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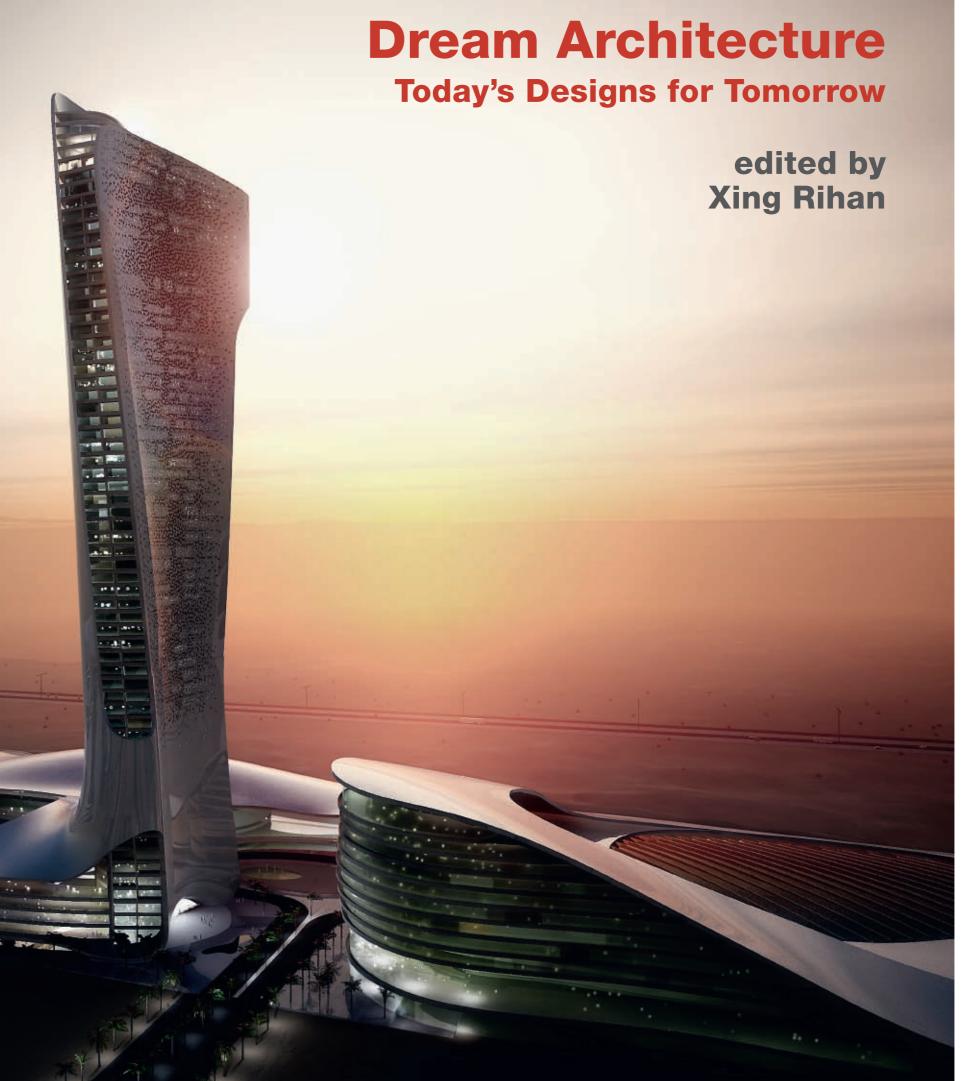
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# **Dream Architecture**

**Today's Designs for Tomorrow** 

edited by Xing Rihan

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#### 10 Zaha Hadid Architects

- 12 Maggie's Center, Fife
- 18 R. Lopez de Heredia Winery, Rioja, Spain
- 22 Nordpark Cable Railway, Innsbruck, Austria
- 28 Performing Arts Center, Abu Dhabi, UAE
- 32 Innovation Tower, Hong Kong

#### 38 Massimiliano Fuksas

- 40 Zenith Music Hall, Strasbourg, France
- 44 Europark, Salzburg, Austria

### 48 Asymptote Architecture

- 50 World Business Center, Busan, South Korea
- 54 Penang Global City Center, Penang, Malaysia
- 60 The Strata Tower, Abu Dhabi, UAE

#### 64 Andrés Perea Architect

- 66 State Public Library, Santiago de Compostela, Spain
- 72 Performing Arts Center, Seoul, South Korea

#### 78 Snøhetta

- 80 The Gateway, Ras Al Khaimah, UAE
- 85 Oslo Opera House, Oslo, Norway
- 98 The King Abdulaziz Center for Knowledge and Culture, Dhahran, Saudi Arabia

#### 104 Bernard Tschumi Architects

- 106 Blue Residential Tower, New York
- 109 Concert hall, Limoges, France
- 112 Independent Financial Center of the Americas, Santo Domingo, Dominican Republic

#### 114 Coop Himmelb(I)au

116 Akron Art Museum, Akron, Ohio

#### 120 **Foster + Partners**

- 121 Beach Road, Singapore
- 122 Crystal Island, Moscow
- 126 Motor City, Alcañiz, Spain

### 130 UNStudio

131 Arnhem Central, Arnhem, The Netherlands

#### 34 **IaN**+

- 136 Cheongna City Tower, Incheon, Korea
- 140 Villa Palladio, Taipei, Taiwan
- 142 Milan Trade Fair Corporate Headquarters, Milan, Italy

### 150 Kisho Kurokawa Architect and Associates

152 National Art Center, Tokyo

#### 158 Steven Holl Architects

- 160 Beirut Marina and Town Quay, Beirut, Lebanon
- 164 Place de l'Océan et du Surf, Biarritz, France
- 172 Meander, Helsinki, Finland
- 174 Sliced Porosity Block, Chengdu, China

#### 178 **John Portman & Associates**

180 Incheon 151 Tower and Songdo Landmark City master plan, South Korea

#### 182 **3deluxe**

- 184 Leonardo Glass Cube Bad Driburg, Germany
- 188 Closing ceremony 2006 Fifa World Cup, Berlin

#### 190 Tadao Ando Architect & Associates

192 21 Design Sight, Tokyo

#### 196 **MVRDV**

- 198 Market hall, Rotterdam, The Netherlands
- 200 Long Tan Park, Liuzhou, China
- 202 Library in Spijkenisse, The Netherlands

- 204 Pampus Harbor, Almere, The Netherlands
- 208 The Hill, New Orleans, Louisiana
- 210 Lower Ninth Ward, New Orleans, Louisiana

#### 212 Saucier + Perrotte Architectes

- 214 University of Toronto Faculty of Law master plan, Toronto, Canada
- 220 National Mountain Center, Canmore, Canada
- 224 Campus Calgary Digital Library, Calgary, Canada

#### 230 Acconci Studio

- 232 New World Trade Center, New York
- 234 Performing arts center for floodable island, Seoul, South Korea
- 238 Perm Museum XXI, Perm, Russia
- 244 Performing Arts Center, Memphis, Tennessee
- 250 Shibuya Station, Tokyo
- 254 Mur Island, Graz, Austria

#### 260 Driendl\* Architects

- 262 Basis terminal, Galzigbahn, St. Anton, Austria
- 268 Hoverfront, Dublin Bay, Ireland

#### 270 Ogrydziak/Prillinger Architects

- 272 Convex Hull, Lake Aloha, California
- 278 Conway House, Princeton, New Jersey

#### 286 Urban Environments Architects

- 288 Schaumagazin, Brauweiler, Germany
- 290 Kunsthalle Bremen, Bremen, Germany

#### 294 ORTLOS Space Engineering

296 Kunsthaus Graz, Graz, Austria

#### 302 Moshe Safdie and Associates

- 304 Marina Bay Sands, Singapore
- 310 **LOMA**
- 312 The Sun, Lausitz, Germany

#### 314 Jensen & Skodvin Architects

316 Oslo S, Norway

#### 320 Henn Architekten

322 Beijing International Automotive Expo Center, Automotive Museum, Beijing, China

#### 326 Giencke & Company

- 328 New City Center, Tornakalns, Riga, Latvia
- 330 Opera house and concert hall, Seoul, South Korea

### 332 Chetwoods Architects

334 The Wind Dam, Russia

#### 338 AAARCHITECTEN

339 Galactical Parcel Service, Amsterdam

#### 342 Abalos + Sentkiewicz Arquitectos

344 Tour Porte De La Chapelle, Paris

#### 350 Various Architects

352 Cheongna City Tower, Incheon, South Korea

#### 356 **Denton Corker Marshall**

358 Manchester Civil Justice Center, Manchester, England

### 362 Samyn and Partners

364 Tour Signal, Paris

### 366 Antoine Predock

368 National Palace Museum, Tapei, Taiwan

#### **Preface**

As building materials and technologies advance, will be critical in shaping these processes: architects are given opportunities to create new kinds of urban environments, Among the recent both structural and material technologies can innovations showcased in this book are parametric modeling, environmentally friendly building skins, and the development of the HOPSCA building type - an "Arcology-type" collection of hotel, office, parking, shopping mall, convention center, and apartments.

the building forms that contain them. Tall build- tentions, creating a receptive environment for exfrom the ground like ancient pyramids.

cludes advancements in energy-efficient design come realities. and the important impact these technologies are having on architectural character. For instance, tapult new styles of buildings to international scale, Holl's Meander project is a building that ventilated building skins are multi-functional enclosures that are not necessarily required to carry the more controversial a project, the more attenstructural loads. As a result, these "breathable" skins can be liberated from the building's floor plate; they provide a spatial transition between some buildings leverage the values they repre- The new urban landscape interior and exterior space and thereby transform sent far beyond anything their physical reality the visual impact of an architectural design.

Office-Parking-Shopping-Convention-Apartment) sion these buildings make is undeniably provo- ate "new textures" or construct new rules. This building type, which can be described as "Arcology-like". Arcology, a concept proposed by main at the "dream" stage, if they do come to adaptation; to "exceed" or to "retreat", American architect Paolo Soleri, is a portman- be built the results may be astonishing. teau of the words "architecture" and "ecology" the sense of an autarky, allowing people to unture, and 7) buildings that challenge limitations. dertake a range of activities in limited urban space and avoid carbon-based travel. The prime advantage of Arcology principles and the HOP- Developments in built form SCA building type is a low-carbon, energy-saving society - an important development for the com- Developments in structural and material technol-

- these new building types be physically realized. Even if designs remain virtual, the implications of such tectonic developments still have profound Cheongna City Tower designed by Various Archiimplications for the meaning of architecture.
- 2. Capital. Buildings can portray images of intense speculation. wealth. Architectural ideas spread internationally, First, parametric design is the latest trend in following the process of globalization being pro-position can be both elegant and allusive, exarchitecture to use computer-aided technology. moted by capital investments. "Dream" buildings Buildings designed with this 3D system are be- can just as easily be built in Africa as in Europe coming more common and are beginning to in- or North America. Even in the initial phases of influence the way architects approach urban plan- vestment, dramatic architectural statements may side a pool, forming a calm landscape while rening and the design of cities. Streamlined, free- be one of the first expressions of desired future vealing an inner energy. Similarly, Zaha Hadid Arform, and captivating, urban spaces now have growth for a location, Countries, regions, and the ability to become as flexible and elastic as cities look to bold architecture to express their in- a quiet aloofness in the midst of the city. ings can now dance on a city's skyline like col-perimentation and imaginative visions. Examples proposes a topological relationship among the ored bands or floating clouds instead of rising can be seen in rapidly developing regions such various parts of the building. The ambiguity as East Asia and the Middle East. Against this among the parts opens the door to different in-The second innovation discussed here - en- background of aspiration, and with the capital to terpretations of constantly shifting experiences vironmental technologies in building façades - in- produce them, many fantastic visions may be- from multiple viewpoints. The firm uses the same
  - tion it receives. In many cases, attention itself indicates success. With the help of the media,

that describes a set of architectural principles book share similar viewpoints and values. They chitects use height, context, and Pop allusions to aimed at designing enormous habitats (hyper- are interpreting architectural space and typolo- create new urban spectacles. Whereas height structures) with high population densities. Build- gies simultaneously in different locations around has long been a technique for differentiation. ings based on these principles contain a variety the world, and all address 1) developments in style now plays a crucial role as well. For examof commercial and residential facilities and are built form, 2) the new urban landscape, 3) the conceived to minimize the environmental impact merging of nature and architecture, 4) continuity of humans. HOPSCAs could be portrayed as of modernism in architecture, 5) the architectural self-contained or economically self-sufficient in reply to the urban question, 6) bionic architec- the environment can intensify a building's object-

these concepts from vision to reality will open a logic into built spaces that are unprecedented in new chapter in architectural history. Three factors appearance. CAD functions make the dynamic shapes that appear throughout this book possi-1. Technology. Only with new discoveries in ble. Regardless of style, scale, or complexity, all of the projects presented – such as Zaha Hadid's Maggie's Center Fife and Nordpark Cable Railway. Fuksas' Zenith Music Hall, and the tects - have strong emotional impact and invite

Buildings that break free from classical compressing a decidedly extroverted sensibility. The Kunsthalle Bremen by Urban Environments Architects, for example, resembles a flower bechitects' Innovation Tower in Hong Kong projects

Steven Holl Architects' Sliced Porosity Block model to express the interplay between buildings 3. Media. Skillful media placement can ca- and their sites. Whether in terms of figure or prominence, intensifying their influence. Often, dissolves into its surroundings without losing its

may warrant. Whether perceived as positive or As the scale and complexity of the city continue The third innovation is the HOPSCA (Hotel- negative additions to the cityscape, the impres- to increase, architects must either find appropricative. Although many of these buildings may re-choice leads to two contrasting gestures of

Most of the featured projects embody the Many of the architects represented in this method of "exceeding". With this approach, arple, IaN+'s Cheongna City Tower in Incheon, Korea, demonstrates ever-changing form. To magnify this effect, ideal sites must be chosen where like quality. Buildings such as John Portman and Associates' 151 Incheon Tower and Songdo Landmark City dazzle with the sheer scale of their urban infrastructure. Some new projects. such as the Tour Signal project in Paris, will work with the existing landscape to magnify their inogies enable constant change in building form. tended effects. With a sufficiently large site, ar-The "dream" buildings shown in this book re- Based on functional logic, form shows infinite chitects can create an integrated building group, flect a changing architectural and cultural envi- possibilities. Freedom from physical constraints part of the trend toward the monumental. ronment, and the translation processes that turn allows designers to translate their own unique. Against the long-accepted background of Pop cance within the city.

Projects that "exceed" call attention to them- ings and the environment. selves: the other strategy featured in this book is "hiding in full view" or "retreating". In contrast with the extroversion of the preceding examples. Continuity of Modernism in architecture introverted projects such as the 21 Design Sight by Tadao Ando Architect & Associates introduce a built form of silence and tranquility into the noise and chaos of the city.

can cover several city blocks, architects strive to find different levels of balance, such as that between city and street. The example in Oslo designed by Jensen & Skodvin Arkitektkontor As. Arne Henriksen Arkitekter As. and C-V Hølmebakk Arkitekt shows how different materials can lead to multiple readings of scale within the ur- city. ban environment. At street level, this project respects the context of the surrounding older buildings, using an elegant and modest formal language appropriate to human-scaled public spaces. Simultaneously, on the scale of the city, the project's enormity makes an important statement in the skyline. This project demonstrates the appropriateness of using different design strategies at different levels to address the spatial questions that abound in developing cityscapes.

#### Nature and architecture merge

Some of the projects in this book are clearly inspired by natural form. Others require explanation in greater depth to make evident the sustainable relationship between the building's materials and energy consumption.

For example, in the Leonardo Glass Cube exhibition pavilion with conference rooms designed Bionic architecture by 3deluxe, the building's appearance both refers to and interacts with nature through its skin. The Bionics - the application of biological principles irregular framework of its exterior wall spreads to to the design of architectural systems – has been the lawn, merging the visual image and pattern of grass with its physical texture and reality, a seamless merger of the built and the natural. Cheongna City Tower in Incheon, Korea, takes nature to the sky with a monumental bridge that soars between buildings, expressing an urban suggests the wings of an insect. Galzigbahn, St. yearning for nature while simultaneously creating Anton am Arlberg by Driendl\*Architects, looks as a spectacle on an urban scale.

The work of Urban Environments Architects Hoverfront project resembles a huge leaf. approaches nature differently. Rather than literally referring to natural form and image, the firm brokers energy exchanges, factoring the importance of nature into the fabric of its calculations. The Schaumagazin Abtei Brauweiler project uses solar panels as an important design element; the innovative conceptual thinking. The subsequent panels represent the point of energy transforma- physical results can be either spectacular or visu-

architecture, the Market Hall by MVRDV uses tion between the building and the outside world. color and large-scale patterns to mark its signifi- The building itself has the capacity to change the and complexity of life in the age of information way we think about the interface between build-

Some of the projects represented in this collection do not adopt a flamboyant, extroverted architectural stance, but nevertheless possess the In comprehensive projects, the scope of which true spirit of Modernism. Simple form as well as traditional materials and construction methods cannot disguise the elegance of the conceptual rigor of projects such as the Manchester Civil Justice Center from Denton Corker Marshall and Blue Residential Tower by Bernard Tschumi. which embody calmness and restraint within the

#### An architectural reply to the urban question

As HOPSCAs develop toward the next stage, they merge with the urban infrastructure. The sights that shape our views and spur creativity. Seoul Performing Arts Center by Andrés Perea integrates the bridge, roads, and urban elements under one huge roof, a hybrid space where many programs can co-exist. The gateway designed by Snøhetta, a self-organizing system in the desert, assimilates the functions of the city and could be called "Desert Utopia".

Foster + Partners' Crystal Island in Moscow also combines multiple programmatic requirements under one superstructure. These projects suggest a future era of "the monumental building

used to streamline buildings and simulate natural figures. Many contemporary buildings show more association with biology than with the rectilinear geometries of the past. The Abu Dhabi Performing Arts Center by Zaha Hadid Architects if it is supported by animal bones. Similarly, the

#### Buildings that challenge limitations

Architects challenge limitations through bold and

ally chaotic as they address the sheer magnitude exploration. The New City Center Riga by the firm of Giencke & Company demonstrates a multi-faceted complexity of this kind as it tries to reconcile history and reality among the various functional areas.

This collection of structures reveals not only physical characteristics, but deeper values and meanings. By examining the thought processes behind the design, we are able to formulate some essential questions:

How does technology bridge the boundaries among different countries and cultures? Will our cities come to resemble those in science-fiction movies? In the development of architectural thought, from classical to contemporary, will the notion of "form follows environment" be the natural successor to "form follows function"?

Could the private agendas of designers and developers become primary factors that will shape the urban public spaces of the future?

Although we can't answer these questions at present, merely asking them may provide in-

In conclusion, we would like to thank the featured architects for their assistance. This book aspires to predict the future of architecture by examining current work characterized by flexible spaces and smart technologies.



# **ZAHA HADID ARCHITECTS**

Zaha Hadid is an architect who consistently pushes the boundaries of architecture and urban design. Her work experiments with new spatial concepts that intensify existing urban landscapes in the pursuit of a visionary aesthetic that encompasses all fields of design, ranging from urban scale to products, interiors, and furniture. Hadid is best known for her seminal built works: Vitra Fire Station, Land Formation-One, Bergisel Ski Jump, Strasbourg Tram Station, the Rosenthal Center for Contemporary Art in Cincinnati, the BMW Central Building in Leipzig, the Hotel Puerta America (interior) in Madrid, the Ordrupgaard Museum Extension in Copenhagen, and the Phaeno Science Center in Wolfsburg. Her central concerns involve a simultaneous engagement in practice, teaching, and research. Hadid studied at the Architectural Association School of Architecture (AA) in London from 1972 through 1977. She then became a partner of the Office for Metropolitan Architecture, taught at the AA with OMA collaborators Rem Koolhaas and Elia Zenghelis, and later led her own studio at the AA until 1987. Since then she has held the Kenzo Tange Chair of the Graduate School of Design at Harvard University in Cambridge, Massachusetts, and the Sullivan Chair of the School of Architecture at the University of Illinois in Chicago; she also taught as guest professor at the Hochschule für Bildende Künste in Hamburg, at the Knowlton School of Architecture in Columbus, Ohio, and at Columbia University in New York. In addition, she was made an Honorary Member of the American Academy of Arts and Letters, a Fellow of the American Institute of Architecture, and a Commander of the British Empire. She is currently a professor at the University of Applied Arts in Vienna, Austria, and serves as the Eero Saarinen Visiting Professor of Architectural Design at Yale University in New Haven, Connecticut.

Hadid is one of the most influential figures in the world of modern architecture. She is also the first female recipient of the coveted Pritzker Architecture Prize, considered in architecture the equivalent of the Nobel Prize. She established her professional practice in London, and her architectural designs can be found in major cities around the world. These include the BMW Central Building in Leipzig, Germany; the National Museum of 21st Century Arts in Rome; and the Olympics Aquatics Center to be built in London.





## NORDPARK CABLE RAILWAY, INNSBRUCK, AUSTRIA

The Nordpark Cable Railway comprises four new stations and Cable Railway in 2005 in collaboration with the contractor, quality, with lightweight organic roof structures of double-December 2, 2007.

Starting at the Congress Station in the center of the city, the Committee in 2005. railway travels to Loewenhaus Station before crossing the river Hadid says the design for each station adapts to the specific thermoforming guaranteed a precise and automatic translation cable car to the summit of the Seegrube Mountain.

"I am absolutely delighted to be attending the opening of "Each stattion has its own unique context, topography, altitude, The Nordpark Cable Railway continues Hadid's quest for an reflects the city's continued commitment to the highest use the fluid language of natural ice formations, like a frozen discourse in digital design and construction. design and construction technology. These stations are the of flexibility within this language enables the shell structures global benchmark for the use of double-curvature glass in to adjust to these various parameters whilst maintaining a

Zaha Hadid Architects won the competition to create Nordpark elements. 'Shell and Shadow', generate each station's spatial

a cable-stayed suspension bridge over the river. It opened in Strabag. The railway is the second project completed by Hadid curvature glass 'floating' on top of concrete plinths, creating an a ceremony at Loewenhaus Station, Rennweg, Innsbruck, on in the city; the Bergisel Ski Jump was completed in 2002 and artificial landscape that describes the movement and circulation awarded the Gold Medal for Design by the International Olympic within."

and ascending the Nordkette Mountain north of Innsbruck to site conditions at various altitudes, while maintaining the of the computer-generated design into the built structure. The Alpenzoo Station. The final station is at Hungerburg village, coherent overall architectural language of fluidity. This approach architects used state-of-the-art design and manufacturing 288 meters above Innsbruck, where passengers can board the was critical to the design for the railway and demonstrates the technologies developed for the automotive industry to create seamless morphology of Hadid's most recent architecture.

standards of architecture and pushes the boundaries of stream on the mountainside", said Hadid. "A high degree coherent formal logic", the architect continues. "Two contrasting

New production methods such as CNC milling and the streamlined esthetics of each station.

the Nordpark Railway", stated Hadid. "It is indeed an honor and circulation. We studied natural phenomena such as glacial architecture of seamless fluidity, representing Zaha Hadid to complete my second project in Innsbruck. The railway moraines and ice movements – as we wanted each station to Architects' latest contribution to the current global architectural



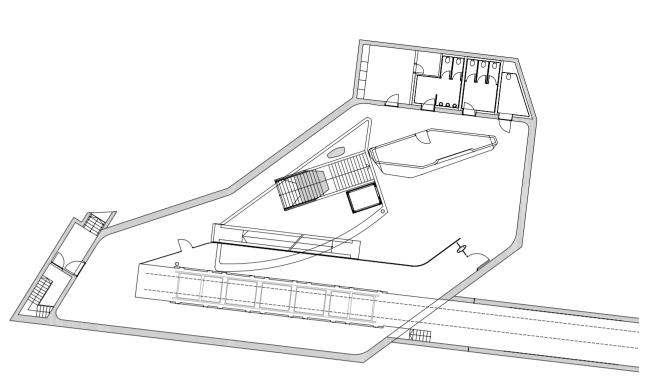


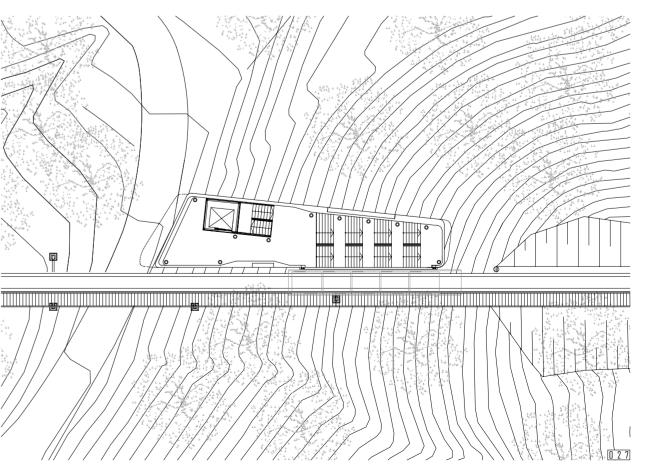
















# PERFORMING ARTS CENTER, ABU DHABI, UAE

Analytical studies of organizational systems and growth in toward the sea. This central axis interacts with the seafront mass at the water's edge, the Performing Arts Center focuses the natural world led to the set of topologies that created the promenade to generate a branching geometry where islands are its volume along the central axis of the site. This arrangement framework for the Abu Dhabi Performing Art Center's distinct formed, isolated, and translated into distinct bodies within the interrupts the block matrix, at the Arterial Road, opening views formal language. These natural scenarios are formed by structure to house the main spaces of the Center. This diagram to the sea and the skyline of Abu Dhabi. applying energy to enclosed systems and the subsequent of the interacting paths is the primary organizational system for The concert hall is above the lower four theaters, a location that decrease in energy caused by development of organized the building, making the movement of the public through the allows daylight to enter into its interior and offers dramatic views structures. The "energy" of the Performing Art Center in Abu structure an integral feature of the design. a series of iteration cycles. The primary components of this water. corridor that stretches from the Sheikh Zayed National Museum Contemporary Art Museum at the northern tip. With its center of

Dhabi is symbolized by the predominant movement in the The sculptural form of the Performing Arts Center emerges stage. Local lobbies for each theater are oriented toward the sea urban fabric along the pedestrian corridor and the Cultural from this linear movement, gradually developing into a growing to give visitors constant visual contact with their surroundings. Center's seafront promenade - the site's two intersecting organism that sprouts a network of successive branches. As it On the north side of the building, the restaurant offers a primary elements. Branching algorithms and growth-simulation winds through the site, the architecture increases in complexity, wide, shaded roof terrace, accessible through the adjacent processes have been used to develop spatial representations accruing height and depth and achieving multiple summits in conference center above the lyrical theater. into a set of basic geometries, and then superimposed onto the masses housing the performance spaces, which spring from The Academy for Performing Arts is housed above the

transformed from abstract diagrams into architectonic design. part of an inclining ensemble of structures that stretch from pedestrian zone. The central axis of Abu Dhabi's Cultural District is a pedestrian the Maritime Museum at its southern end to the Abu Dhabi

of the sea and city skyline from the huge window behind the

programmatic diagrams and architectonic interpretations in the structure like fruit on a vine and face westward toward the experimental theater to the south, while in the eastern tail of the sculpture, retail areas take advantage of the pedestrian biological analogy (branches, stems, fruits, and leaves) are The building, which reaches a height of sixty-two meters, is traffic using the bridge that connects the Center with the central

