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Wonder Wood presents this timeless material as it is being used today and how it can be used in the future. It also documents a selection of current international projects and processes, making-ofs, and experiments by 120 internationally renowned designers, architects, and artists, whose creative and innovative approach to the material makes their work compelling. For selected projects, interviews with the designers provide an in-depth look at the creative process and its results. A second section, dedicated to materials and technologies examines innovative developments as

well as wood, wood-based materials, finishing technologies, and wooden structure principles. With biographies of the designers represented in the book, an alphabetical index, a bibliography and sources, *Wonder Wood* will serve the reader as a classic book of reference. This book is the result of a symposium on "Design and Aesthetics in Wood," which was held at the State University of New York College of Environmental Science and Forestry in Syracuse, N.Y., 7-9 November 1967. Concurrent with the conference was an exhibition, sponsored by the College of Environmental Science and Forestry and the School of Art, in which the art objects and industrial products illustrated here were a part. "Some books are so beautifully produced and contain such superb images that even before one starts reading they have an entrancing quality that makes ownership essential. For anyone interested in design, architecture, cultures or travel [this book] is just such a volume . . . captivating." —TES

Many of the world's greatest buildings are made of wood, yet it is undervalued or ignored in histories of architecture. However, leading designers around the world are increasingly drawn to it to satisfy social and environmental needs. Will Pryce is an award-winning photographer who trained as an architect and photojournalist. Intensely dramatic but not overdramatized, technically flawless but not merely documentary, his internationally acclaimed photographs convey all the excitement of encountering these amazing structures firsthand. He has traveled the world seeking the famous and the obscure. In the text he shows how the wooden heritage of Japan grew from its Buddhist history; how Russia's carpenters determined its iconic domes; how Norway's stave churches contain clues to her pagan past; how Turkic tribes brought the yali from Asia; how the settlers of New England employed a provincial English tradition on the new continent; and how, today, sophisticated architects such as Peter Zumthor and Renzo Piano are inventing an eloquent new wooden

architecture. "As a typical element of traditional Chinese architecture, wood was extensively used in urban design, building groups and single buildings in the past. Nowadays, modern timber architecture is emerging all over the world. As an environment-friendly, natural and simple material, timber gains popularity in architectural design again. The book introduces different types of wood, each illustrated with specific cases, which are analysed through real-scene photos, detailed drawings and informative text. Through this well-organised book, readers will get a comprehensive understanding about the application of wood in architectural design" -- Publicaciones Arquitectura y Arte. Exciting and surprising approaches of how timber is being used in architecture and interior design today. Building with wood has enjoyed a remarkable revival in recent years. Technically ingenious and aesthetically demanding buildings by architects such as Thomas Herzog or Santiago Calatrava derive their special character from wood. Modern building techniques are enhancing the structural possibilities of this traditional material and in the context of current ecological debates, wood - the natural and renewable building material - is gaining even greater importance. A superbly illustrated survey profiling noteworthy new homes from around the world, all constructed from the architect's latest cutting-edge material-wood. Contemporary architects have long overlooked the great versatility of wood as a building material. Now, however, they have begun to adopt wood as the natural solution to a variety of design problems, and as a result, this environmentally sustainable material is becoming increasingly significant in today's domestic architecture. Wood Houses, by noted architecture journalist Ruth Slavid, displays the entire breadth of this important architectural movement by covering forty-six recently built homes. The featured houses range from Fernau and Hartman Architects' Mann Residence in Sonoma County, a

timber-frame house with a strikingly decentralized plan, to 24H Architecture's Arjang House in , V ä rmland Sweden, a reindeer fur-lined, cedar-shingled lakeside retreat. Each house's profile is illustrated with not only the architect's own plans and elevations but also numerous full-color interior and exterior photographs that highlight the intrinsic beauty of wood. Slavid explores the background of the present wood-house renaissance in an introduction that covers topics as wide-ranging as timber-frame construction, the use of wood in an urban setting, and fire prevention. She goes on to illuminate significant trends in the field of wooden home design, such as timber's popularity as a construction material for vacation homes and the evolution of deliberately austere aesthetics from wood's innate qualities. Other topics include the liberation of wood from its familiar associations to serve as the basis of modern design and the current status of wood houses as part of a larger urban or suburban development. A helpful appendix features project credits and a glossary. This beautiful volume will serve as both a reference and an inspiration for anyone who designs, builds, or simply lives in wood houses. From small-scale thermal properties to large-scale forestry, territorial, and carbon cycle issues, wood has latent propensities not well addressed in the current discourse on wood construction. Through a range of design research formats-from material testing to in-situ documentation to speculative urban projects- this book articulates and illustrates future architectural and ecological potentials of wood. Tall wood buildings have been at the foreground of innovative building practice in urban contexts for a number of years. From London to Stockholm, from Vancouver to Melbourne timber buildings of up to 20 storeys have been built, are under construction or being considered. This dynamic trend was enabled by developments in the material itself, prefabrication and more flexibility in fire regulations. The low CO₂ footprint of wood -

often regionally sourced - is another strong argument in its favour. This publication explains the typical construction types such as panel systems, frame and hybrid systems. An international selection of 13 case studies is documented in detail with many specially prepared construction drawings, demonstrating the range of the technology. Over the past 10-15 years a renaissance in wood architecture has occurred with the development of new wood building systems and design strategies, elevating wood from a predominantly single-family residential idiom to a rival of concrete and steel construction for a variety of building types, including high rises. This new solid wood architecture offers unparalleled environmental as well as construction and aesthetic benefits, and is of growing importance for professionals and academics involved in green design. Solid Wood provides the first detailed book which allows readers to understand new mass timber/massive wood architecture. It provides: historical context in wood architecture from around the world a strong environmental rationale for the use of wood in buildings recent developments in contemporary fire safety and structural issues insights into building code challenges detailed case studies of new large-scale wood building systems on a country-by-country basis. Case studies from the UK, Norway, Sweden, Germany, Austria, Italy, Canada, the United States, New Zealand and Australia highlight design strategies, construction details and unique cultural attitudes in wood design. The case studies include the most ambitious academic, hospitality, industrial, multi-family, and wood office buildings in the world. With discussions from leading architectural, engineering, and material manufacturing firms in Europe, North America and the South Pacific, Solid Wood disrupts preconceived notions and serves as an indispensable guide to twenty-first century wood architecture and its environmental and cultural benefits. Features the thirteen winning buildings from the North American Wood Design Awards

2003 architectural competition. The Architecture of Bergen County, New Jersey presents an accessible overview of the county's architectural heritage and its historic structures. The volume explores the styles, trends, and events that influenced the design and setting of the region's buildings. More than 150 photos document Bergen County's architectural treasures, generating awareness and appreciation for these structures and their history. The Architecture of Bergen County, New Jersey demonstrates the close association between architectural development at the national and local levels, and shows how social, technological, and political changes occurring within the county have been reflected in the building types and styles of the area. A detailed and timely look at the resourceful ways wood is being used in some of the world's most innovative new buildings. The past decade has witnessed - especially among younger architects - a resurging interest in building with wood. The discourse has in no small measure been influenced by Konrad Wachsmann's classic Holzhausbau. And yet, this standard work (originally published in 1930) was out of print for many years. Now Holzhausbau is again available and appears here for the first time in an English language edition. Wachsmann demonstrates how new forms can be achieved when modern manufacturing processes are adapted to the traditional building material wood. He presents three totally different building techniques: the wood frame, the panel, and the log house methods and illustrates then their wide range of application possibilities by analysing plans and photographs of works of some of the century's most renowned architects. Two introductory essays enable the reader to take new hold of the book and a biographical sketch offers an impression of the times in which Wachsmann worked and lived. The first volume in an informative new series provides a close-up look at innovative architectural design and the use of wood in modern-day homes, in a visual study that features dozens

of photographs, as well as floor plans and elevations. 15,000 first printing. Including discussion of beams, diaphragms, columns, connections and heavy trusses, as well as studies of joists, special beams, residential trusses and arches, this reference on wood is aimed at architects, builders and engineers. It incorporates the US National Design Standards for Wood. Wood has always been a strong contributing factor in the creation of interesting architecture. Because of its special physical characteristics, its many possibilities of application and combination with other construction materials, since human beings began building houses, wood has been one of the main building materials. In addition, because of the increasing sensitivity for the protection of resources, the ecological potential of wood as a renewable raw material wood has gained in significance. To build with wood has been for years and is still a trend topic, this volume is a road tour of contemporary wood architecture. The many possibilities for use of this natural building material are shown with texts, photos, facts and drawings, as well as the innovative construction techniques which have extended these possibilities. The architectural species diversity ranges from energy efficient passive homes to wide span supporting structures, to multi-story production halls. As synthetic materials and mutant and hybrid concoctions attain prominence in our daily lives—in our handheld devices, cooking utensils, vehicles, even things as simple as our shopping bags—the design and construction industries have instead re-embraced the familiar, the conventional—wood, which has regained prominence through innovations in engineering and construction methodologies. Technology is now commonly used—and often (though not always) affordably used—to cut, perforate, assemble, erect, and even fabricate materials in a manner not previously possible. Wood is one such material, and *Timber in the City* documents both the imaginings of those in the nascence of their education and

practice and the executed work of design professionals at the leading edge of architecture. These designers, regardless of the duration of their immersion in the field, have imaginatively rethought the means by which we build and the methods by which we define space merely through differing deployments of a familiar building material. Timber is having a renaissance as an architectural material, as more architects come to understand its properties, and enjoy adding it to their repertoire of materials. With a growing crop of good new timber buildings, architects are coming to realise that this is no longer the sole preserve of the traditionalist, but a material that has an important role to play in the contemporary world. The book's introduction examines the ways in which a raw material of diminishing quality (but abundant quantity) can be 'stretched' to perform as it has never done before using new technology and careful detailing. The 40 case studies are devoted to some of the most interesting new wood projects from around the world. The projects are grouped in seven themed chapters. Featured architects from around the world include Steven Holl, Foster and Partners, Rural Studio, Renzo Piano and Shigeru Ban. This beautifully published book showcases a selection of Roger Wood and Randal Marsh's best public and private projects. Tall wood buildings have been at the foreground of innovative building practice in urban contexts for a number of years. From London to Stockholm, from Vancouver to Melbourne timber buildings of up to 20 storeys have been built, are under construction or being considered. This dynamic trend was enabled by developments in the material itself, prefabrication and more flexibility in fire regulations. The low CO₂ footprint of wood - often regionally sourced - is another strong argument in its favour. This publication explains the typical construction types such as panel systems, frame and hybrid systems. An international selection of 13 case studies is documented in detail with many specially

prepared construction drawings, demonstrating the range of the technology. The contact with nature of this material has revitalized the use of wood in architecture. In this sense, the clients who request these types of options do so because they believe in the benefits that wood brings to their lives, satisfying their tastes, their requirements, and their individual styles. WOOD ARCHITECTURE TODAY is a selection of 30 of the most relevant international architects that work with WOOD; a compilation of different types of construction which unify traditional design with different styles of modern creations. Focused on the use of wood, the explanatory texts and drawing plans deleted clearly explain the characteristics of this material and its use in sophisticated projects. Provides novice architects and students with a complete understanding of wood as a construction material. Practicing architects, who want to reinforce or supplement their knowledge of wood's unique properties, will also find it an invaluable reference. Topics covered include wood deterioration, wood construction, tree-related properties; diversity, variability and chemical composition of wood; strength, elasticity and acoustical properties of wood; thermal properties and fire performance of structural wood; bark and charcoal as fuel; and durability and preservation of wood. This monograph presents a state-of-the-art analysis of eco-friendly and aesthetic structures in wooden dome construction. The author demonstrates that the further development of wooden structures depends on both supplementing the testing of wood as a heterogeneous material, as well as on further improvement of fibrous structures with visco-elastic properties. The target audience primarily comprises research experts and practitioners in the field of building materials who are interested in innovative architecture. Timber: the old raw material and building material returns. There are many reasons today for building with wood and there are great advantages over conventional designs. Wood is not only a

renewable building material that helps reduce the levels of CO₂ and is hence good for climate change, but, due to modern computing and manufacturing processes, it can also be used for a variety of construction tasks. Wood possesses excellent qualities for both construction and indoor climate control, and can easily be combined with other common building materials. Based on 24 international projects, the book provides an overview of the range of possibilities in wood construction today. Texts, images, and plans document the architectural and constructive qualities of contemporary timber structures from the conceptual design to the structure in detail. The various uses are based on current research in modern timber engineering but also on timber construction expertise that has been developing over many centuries. This special discipline has evolved significantly in recent decades, particularly in Germany, Austria, and Switzerland, and is a world leader today. Revealing the fascinating breath of both the architectural and the interior design possibilities inherent in this material from across the globe. In the modern architecture, wood plays an especially central role, and the significance of this wonderfully diverse raw material in the design of sophisticated buildings and interiors continues to increase. Historically speaking, building without wood is practically unimaginable. Over the centuries, skills and traditions in the industrial arts harbouring an immense wealth of experience have evolved on virtually all continents. The breadth of the material has thus become extremely wide; on the one hand, wood serves as a constructive material, yet it can also be a membrane-like surface. Its employment in interior decorating is just as feasible as its function as a weatherproofing facade skin. Its appearance can be rough and raw, but also sophisticated and clean. It allows a sensual perception that turns almost nuances, from harsh, almost cool, to warm and cozy, into perceptible experience. This book presents remarkable objects from

the realm of private living space, public buildings and religious structures. Along with well-designed hotels, restaurants and bars, they form the latest currents of a modern international wood-building culture. Plans will be included. Index with contact information

Wood architecture is gaining importance worldwide. The aesthetic, technical and ecological advantages of this regenerative building material are obvious. This monograph is the first to present a definitive documentation of the important examples in wood architecture in Denmark, Iceland, Norway, Sweden, and Finland. The book offers a detailed analysis of 19 buildings, with photographs, drawings and technical details, and briefly introduces 71 further buildings. The selection is based not only on aesthetic and architectural criteria, but also on the merit of innovative solutions to technical problems. All manner of buildings are represented here: from single family homes to churches, from industrial buildings to libraries, from temporary-experimental architecture to large halls. Historical exponents illustrate the importance of a centuries old tradition in Scandinavia (modular construction, framed church buildings, etc.) and analyse their inspirational role for today's architects. This monograph offers an extensive and exciting image, and a few surprises, of contemporary wood architecture in Northern Europe. An indispensable book (including a commented bibliography, as well as indices of names and locations) for specialists and non-specialists interested in wood architecture. Humans have been building homes from wood for thousands of years, and yet, in a contemporary world of option and innovation the most primitive resource could in fact be the most pertinent. Stretching back to historic Japanese houses, becoming synonymous with resort accommodation, and intertwining itself in the modern trend of hygge, its tactility and warmth has influenced countless architectural design movements. A safe, sturdy, and sustainable

alternative to concrete, architects are rediscovering wood's universal appeal. *Out of the Woods* documents their progressive and inspiring creations from the foundations up. This book emphasizes the important message that architects and structural engineers must strive to ensure that the buildings they design and construct should not be major contributors to climate change. Rather, they should be exploring the use of green materials and building methods – such as timber, wood, and associated materials – in order to safeguard the environment. These sustainable materials are not only environmentally friendly, but they have the added benefit of being easy to manufacture, cost effective, often locally available, and easily replenished. Moreover, it has been demonstrated that wood and timber are viable materials in the construction of a wide variety of building types, including medium and high-rise buildings. *The Importance of Wood and Timber in Sustainable Buildings* brings together a distinguished group of contributors from different cultures and building traditions to address why now is the time to rethink our construction methods and explore replacing many of the carbon intensive materials that are currently being used with wood and timber. Wood presents a comprehensive survey of international wood architecture highlighting the incredible versatility of this building material and the environmentally friendly possibilities of using it in residential construction and design. Wood as a material evokes alternate images of warm comfort or sleek cool modern design, and its many special characteristics are explored through the selected projects, interiors, and furniture detailed in this book. Wood provides a unique opportunity to examine contemporary wooden architecture as a global phenomenon rich in cross-cultural influences and universality. It also illustrates the diversity in the use of this material in different climates, cultures, and countries. The book is divided into four main chapters: a short historical introduction; a

compilation of different projects shown as a whole, and typologically catalogued according to the use of wood; a compilation of interior designs, arranged like the different spaces of a house and combined with wood furniture; and a catalogue of the most commonly used woods and their properties. Living material: You'll be amazed what wood can do "As soon as the first men bravely moved out of their protective caves, they surely built protective structures out of wood. The ultimate renewable resource for architecture is thus the oldest, but also the most modern of materials. Thanks to computer-driven design and manufacturing techniques, wood can be cut and carved in the most astonishing new ways. Such innovative contributors to the work published in this volume as the German professor Achim Menges are showing the way to the creation of complex, almost living wood structures. Others like the young architects from WMR who are based in Santiago, Chile, show just how it is possible to build a dramatic two-story wood cabin overlooking the Pacific for just \$ 30,000. Or imagine how an innovative polyurethane-coated wood canopy can cover and renew a whole area of the historic city of Seville (Metropol Parasol by J ü rgen Mayer H.). Just as it can be simple and evocative, wood can be part of sophisticated structures like Snohetta's Norwegian Wild Reindeer Pavilion, with its CNC-milled timber wall. Economical, ecological, and fundamentally warm, wood architecture is as contemporary as it gets." Text in English, French, and German

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