

Well completion design Textbook

Understanding Well Completion Design: An Essential Guide for Oil and Gas Operations

Well completion design is a critical phase in the lifecycle of an oil or gas well, directly impacting its productivity, safety, and economic viability. It involves planning and implementing the final steps that prepare a drilled well for production. A well-designed completion ensures optimal hydrocarbon flow, minimizes operational risks, and extends the lifespan of the well. As the industry advances with new technologies and environmental considerations, understanding the intricacies of well completion design becomes more vital than ever for engineers, operators, and stakeholders alike.

This comprehensive guide explores the fundamental concepts, key components, types, and considerations involved in well completion design, providing valuable insights for professionals aiming to optimize their operations.

What is Well Completion Design?

Well completion design refers to the process of preparing a drilled borehole for production by installing the necessary equipment and systems to enable the safe, efficient, and economical extraction of hydrocarbons. It involves selecting appropriate casing and tubing sizes, designing artificial lift systems if needed, and integrating instrumentation and safety devices.

The primary goal is to maximize hydrocarbon recovery while minimizing operational risks and environmental impacts. Well completion design encompasses both the planning phase?selecting the appropriate technologies and materials?and the execution phase?installing and testing the completion equipment.

Key Components of Well Completion Design

A successful well completion hinges on several critical components, each tailored to the specific reservoir characteristics and operational requirements.

Casing and Liner Systems

- Surface Casing: Provides wellbore stability, protects groundwater, and serves as a conduit for surface equipment.
- Intermediate Casing: Isolates problematic zones, such as high-pressure formations or

troublesome strata.

- Production Casing: Encloses the producing zones and provides the conduit for production tubing.
- Liners: Partial casing strings that are hung inside the wellbore, often used to reduce costs or address specific formation conditions.

Perforation Design

- Creates communication between the reservoir and the wellbore.
- Perforation techniques include gun perforation, jet perforation, or other advanced methods.
- Proper placement and density of perforations are critical for optimal flow rates.

Completion Tubing and Equipment

- Production Tubing: The conduit through which hydrocarbons flow to the surface.
- Packers: Devices that isolate zones and prevent unwanted fluid movement.
- Valves and Chokes: Regulate flow and pressure control.
- Downhole Sensors: Monitor pressure, temperature, and flow conditions.

Artificial Lift Systems

- Employed when reservoir pressure is insufficient for natural flow.
- Types include beam pumps, electric submersible pumps (ESPs), gas lift, and plunger lifts.

Safety and Control Devices

- Blowout preventers (BOPs)
- Safety valves
- Monitoring sensors for early detection of operational issues

Types of Well Completions

The choice of well completion type depends on reservoir characteristics, production goals, and economic considerations.

Open Hole Completions

- The wellbore remains unlined during the completion process.
- Suitable for certain formations with stable geology.
- Allows for maximum contact with the reservoir but has higher risks of formation damage and sand production.

Cased and Perforated Completions

- Casing is run and cemented in the wellbore before perforation.
- Offers better zonal isolation and well integrity.
- Most common method in conventional reservoirs.

Horizontal and Multilateral Completions

- Drilled laterally within the reservoir to increase contact area.
- Improve production rates for tight or low-permeability formations.
- Complex design requiring advanced equipment and planning.

Multizone Completions

- Enable selective production from multiple zones.
- Use of packers and sliding sleeves for zone control.
- Increases reservoir management flexibility.

Factors Influencing Well Completion Design

Designing an effective well completion requires considering multiple geological, operational, and economic factors.

Reservoir Characteristics

- Porosity and permeability
- Pressure and temperature
- Fluid composition and quality
- Presence of corrosive or abrasive elements

Formation Conditions

- Stress regime and wellbore stability
- Sand production potential
- Formation damage risks

Operational Objectives

- Production rate targets
- Well lifespan expectations
- Ease of maintenance and intervention

Environmental and Safety Considerations

- Minimizing risk of blowouts
- Handling of produced fluids
- Regulatory compliance

Design Process and Best Practices

Effective well completion design is a systematic process that incorporates thorough analysis, modeling, and testing.

Step 1: Data Acquisition and Analysis

- Gather geological, petrophysical, and operational data.
- Conduct reservoir modeling to predict flow behavior.

Step 2: Planning and Simulation

- Use simulation software to evaluate different completion scenarios.
- Optimize casing and tubing sizes, perforation locations, and artificial lift options.

Step 3: Equipment Specification and Procurement

- Select materials compatible with reservoir fluids and conditions.
- Verify equipment standards and certifications.

Step 4: Installation and Testing

- Execute the completion plan with precision.
- Conduct pressure tests, flow checks, and integrity assessments.

Step 5: Monitoring and Optimization

- Continuously monitor well performance.
- Adjust completion settings or perform interventions as needed.

Innovations and Future Trends in Well Completion Design

The industry continues to evolve with technological advancements aimed at improving efficiency, safety, and environmental sustainability.

Advanced Materials and Technologies

- Smart materials resistant to corrosion and high temperatures.
- Fiber optics for real-time downhole monitoring.
- Horizontal and multilateral completions for complex reservoirs.

Automation and Digitalization

- Use of AI and machine learning to optimize completion designs.
- Remote monitoring and control systems for enhanced safety.

Environmental Considerations

- Waterless completions to reduce water usage.
- Zero-flaring systems and improved waste management.

Conclusion

Effective **well completion design** is fundamental to maximizing hydrocarbon recovery, ensuring operational safety, and minimizing environmental impact. It requires a multidisciplinary approach that combines geological understanding, engineering expertise, and technological innovation.

Whether dealing with conventional or unconventional reservoirs, a well-planned and adaptable completion strategy can significantly influence the success and profitability of oil and gas projects.

By staying abreast of industry best practices, embracing new technologies, and continuously optimizing designs, operators can achieve sustainable and efficient resource extraction. As the industry faces increasing challenges and environmental pressures, meticulous well completion design will remain a cornerstone of responsible and successful energy production.

Well Completion Design: A Comprehensive Guide to Optimizing Reservoir Production and Ensuring Asset Integrity

In the realm of upstream oil and gas operations, well completion design stands as a critical phase that bridges the drilling process and production operations. It involves planning and implementing the necessary equipment, techniques, and materials to enable the safe, efficient, and economical extraction of hydrocarbons from a reservoir. A well-designed completion not only maximizes production rates but also ensures the integrity of the well over its operational lifespan, minimizes environmental risks, and reduces overall lifecycle costs. This guide aims to provide a detailed overview of well completion design, emphasizing key considerations, methodologies, and best practices for industry professionals.

Understanding Well Completion: Definition and Importance

Well completion is the process of making a drilled well ready for production or injection. It encompasses all activities after drilling reaches the target zone, including casing, cementing, perforation, and installing equipment such as tubing, packers, and other downhole tools. The primary goal is to establish a reliable conduit for hydrocarbons while protecting the wellbore and surrounding formations.

Why is well completion design important?

- Maximizes Production Efficiency: Proper design ensures optimal flow rates and recovery.
- Ensures Safety and Reliability: Reduces risks of wellbore failures, blowouts, and environmental hazards.
- Extends Well Life: Properly planned completions mitigate corrosion, scaling, and formation damage.
- Reduces Operational Costs: Minimizes intervention needs and enhances maintenance efficiency.

Fundamental Components of Well Completion Design

A comprehensive well completion involves several interconnected components:

- Casing and Cementing: Provides wellbore stability and zonal isolation.
- Tubing and Perforations: Facilitates controlled hydrocarbon flow from the formation to the surface.
- Downhole Equipment: Includes packers, valves, and gauges to control flow and monitor well conditions.
- Surface Equipment: Wellhead, choke manifold, and production facilities.

Each component must be carefully selected based on reservoir characteristics, well objectives, and operational constraints.

Key Considerations in Well Completion Design

Designing an effective well completion requires balancing multiple factors:

Reservoir Characteristics

- Porosity and Permeability: Determine the type of completion (e.g., open hole, cased hole) and perforation strategy.
- Fluid Properties: Oil, gas, or condensate production influences equipment choices.
- Formation Pressure and Temperature: Affect material selection and completion techniques.
- Horizontality and Thickness: Horizontal or deviated wells may need specialized completion systems.

Well Objectives

- Production Rate Targets: High flow rates may necessitate certain completion features.
- Enhanced Recovery Methods: Waterflooding, gas injection, or other EOR techniques impact design.
- Injection Needs: For injection wells, completion must accommodate fluid injection and pressure management.

Operational Environment

- Corrosion and Scaling: Require corrosion-resistant materials and chemical treatments.
- Wellbore Stability: Geomechanical considerations influence casing design.

- Accessibility for Intervention: Future workover plans should inform the completion design.

Types of Well Completion Techniques

Depending on the reservoir and operational goals, various completion types are employed:

Open Hole Completion

- Used when the target formation is stable and wellbore conditions are suitable.
- No casing is run across the producing zone.
- Advantages: Cost-effective, minimal formation damage.
- Limitations: Less zonal isolation, limited control over flow.

Cased and Perforated Completion

- Casing is run and cemented across the zone, then perforated to connect the formation to the wellbore.
- Allows for zonal isolation and better control.
- Suitable for high-pressure, high-temperature, or unconsolidated formations.

Sand Control Completions

- Designed to prevent sand production that can damage equipment.
- Techniques include gravel packs, screens, or chemical consolidants.

Multilateral and Horizontal Completions

- Enable production from multiple zones or reservoirs via a single wellbore.
- Increase contact with the reservoir, improving recovery.

Designing the Completion: Step-by-Step Approach

A systematic approach ensures all critical factors are addressed:

- Data Gathering and Reservoir Modeling

- Collect geological, petrophysical, and reservoir data.
- Develop models to predict flow behavior and identify potential issues.

- Define Well Objectives and Constraints

- Establish production targets, operational limits, and economic considerations.

- Select Completion Type and Equipment

- Choose between open hole, cased hole, or specialized systems based on data.
- Specify casing sizes, materials, and perforation techniques.

- Design Zonal Isolation and Sand Control Measures

- Implement packers, seals, or gravel packs as needed.
- Plan for chemical treatments to mitigate formation damage.

- Plan for Artificial Lift and Flow Control

- Incorporate downhole pumps, valves, or chokes to optimize flow.
- Design for future interventions or workovers.

- Material Selection and Corrosion Control

- Use corrosion-resistant alloys, coatings, or inhibitors tailored to fluid composition and temperature.

- Safety and Environmental Considerations

- Integrate blowout preventers, safety valves, and monitoring systems.
- Design for environmental protection and minimal footprint.

Advanced Technologies in Well Completion Design

Emerging tools and techniques are transforming well completion practices:

- Smart Well Completions: Incorporate sensors and downhole controls for real-time monitoring and automation.
- Expandable Tubing and Casing: Allow for larger diameters and better zonal control.
- Memory and Shape-Memory Materials: Enable in-situ activation of completion components.
- Horizontal and Multilateral Systems: Enhance contact with the reservoir and improve drainage.

Best Practices and Industry Standards

To ensure successful well completions, industry professionals adhere to established standards and best practices:

- Design for Flexibility and Future Expansion: Consider future interventions during initial design.
- Prioritize Zonal Isolation: Critical for production efficiency and environmental safety.
- Optimize Cost and Reliability: Balance expense with durability and performance.
- Utilize Simulation and Modeling: Use software tools to predict performance and troubleshoot potential issues.
- Conduct Thorough Risk Assessments: Identify and mitigate potential failure modes.

Case Study: Successful Well Completion in a High-Pressure, High-Temperature Reservoir

Details are illustrative.

A major operator designed a cased and perforated completion with advanced corrosion-resistant tubing, incorporating inflatable packers for zonal isolation. Real-time monitoring sensors were installed for pressure and temperature, enabling dynamic flow adjustments. Sand control was achieved using gravel packs tailored to the formation's grain size. The completion allowed for effective artificial lift deployment, optimizing production rates while maintaining well integrity over five years of operation.

Conclusion: The Art and Science of Well Completion Design

Effective well completion design combines engineering principles, technological innovation, and

practical experience. It requires a holistic understanding of reservoir behavior, operational constraints, safety protocols, and economic factors. By meticulously planning each aspect—from casing and cementing to artificial lift and monitoring—oil and gas operators can unlock the full potential of their reservoirs, ensuring safe, efficient, and sustainable hydrocarbon production. As industry technologies evolve, continuous learning and adaptation will remain key to mastering the art and science of well completion.

Remember: A well-designed completion is not just a final step but a foundation for long-term asset performance and environmental stewardship.

Question What are the key factors to consider in well completion design? Key factors include reservoir characteristics, wellbore stability, production goals, formation pressure, fluid properties, and environmental considerations to ensure efficient and safe well operation. How does the choice of completion equipment impact well productivity? Selecting appropriate completion equipment such as tubing, packers, and screens affects flow efficiency, reservoir protection, and the ability to perform interventions, thereby directly influencing overall well productivity. What are the latest trends in well completion technology? Recent trends include the use of intelligent well completions with sensors, multi-zone hydraulic fracturing, advanced artificial lift systems, and the integration of automation and data analytics for optimized production. How does well completion design address reservoir stimulation needs? Design incorporates features like perforation strategies, sand control methods, and hydraulic fracturing techniques to enhance reservoir stimulation, improve flow rates, and maximize recovery. What role does well completion design play in horizontal and multilateral wells? It enables precise placement of completion components across complex wellbore geometries, ensuring optimal zonal isolation, enhanced contact with the reservoir, and efficient production from multiple intervals. How do environmental and safety considerations influence well completion design? Design must incorporate measures to prevent leaks, manage wellbore integrity, and ensure safe handling of fluids and equipment, minimizing environmental impact and adhering to safety regulations.

Related keywords: well completion design, oil and gas well, wellbore architecture, completion methods, reservoir stimulation, casing design, perforation techniques, production optimization, well integrity, artificial lift systems

CHARLOTTE AND PETER FIELL

Charlotte and Peter Fiell are renowned figures in the world of design, architecture, and contemporary visual culture. Their collaborative work as authors, researchers, and curators has significantly influenced how we perceive design history and its impact on modern society. With a

keen eye for detail and a passion for uncovering the stories behind iconic objects and movements, Charlotte and Peter Fiell have established themselves as authoritative voices in the field. This article delves into their backgrounds, contributions, notable publications, and their lasting influence on design scholarship.

Who Are Charlotte and Peter Fiell?

Background and Career Overview

Charlotte and Peter Fiell are British design historians and authors celebrated for their extensive work on design history and contemporary design trends. Their collaborative efforts have resulted in numerous influential publications that are widely used by students, professionals, and enthusiasts alike.

Charlotte Fiell's academic background is rooted in art and design history, which she has combined with her keen interest in the cultural aspects of design. Peter Fiell, on the other hand, is recognized for his expertise in design criticism and his ability to contextualize design within broader social and cultural frameworks.

Together, they have spent decades researching, writing, and curating exhibitions that highlight the evolution of design from the early modern period to the present day.

Major Contributions to Design Literature

Key Publications

The Fiells are perhaps best known for their comprehensive and visually engaging books that explore various facets of design. Some of their most influential publications include:

- **Design of the 20th Century** ? A definitive guide that chronicles the development of design over the last hundred years, covering everything from industrial design to graphic arts.
- **1000 Lights** ? An extensive survey of lighting design, showcasing innovations and iconic fixtures from around the world.
- **Furniture Design** ? An in-depth look at the evolution of furniture, highlighting key designers and movements that shaped modern interiors.
- **Design Culture: An Anthology** ? A collection of essays and case studies that examine the cultural significance of design across different eras and regions.

Their books are characterized by their rich visual content, combining high-quality photographs, detailed illustrations, and insightful analysis, making them invaluable resources for understanding

the history and significance of design.

Curatorial and Exhibition Work

Beyond their publications, Charlotte and Peter Fiell have curated numerous exhibitions that have traveled worldwide. These exhibitions often serve as visual narratives that bring their written work to life, engaging audiences with immersive experiences.

Some notable exhibitions include:

- Modern Masters: Design in the 20th Century ? Showcasing key works from influential designers.
- Lighting the Future ? Exploring innovations in lighting technology and design.
- Furniture of the 21st Century ? Highlighting contemporary trends and emerging designers.

Their curatorial work emphasizes the importance of storytelling in design and underscores the social, cultural, and technological factors that influence creative practices.

Their Approach to Design History

Interdisciplinary Perspective

Charlotte and Peter Fiell advocate for an interdisciplinary approach to understanding design. They believe that design cannot be studied in isolation but must be contextualized within cultural, political, and technological frameworks.

This perspective allows their work to:

- Connect design movements with historical events.
- Analyze the societal impact of technological innovations.
- Explore the ways design reflects cultural identities.

Visual Emphasis

A hallmark of their publications is the emphasis on visual content. They understand that design is a highly visual discipline, and their books are often praised for their stunning imagery that complements scholarly analysis.

This visual focus:

- Enhances reader engagement.
- Provides a comprehensive understanding of design objects.
- Inspires designers and enthusiasts alike.

Influence and Legacy

Educational Impact

Charlotte and Peter Fiell's work has become standard reading in design education worldwide. Their books are frequently cited in university courses on design history, industrial design, and visual culture.

Their clear explanations and rich visuals make complex subject matter accessible to students and newcomers to the field.

Inspiring Contemporary Designers

Many modern designers cite the Fiells' publications as sources of inspiration. Their detailed case studies and historical insights help emerging designers appreciate the roots of their craft and the evolution of design principles.

Promoting Design Awareness

Through their exhibitions and writings, the Fiells have helped raise public awareness about the importance of design in everyday life. They emphasize that good design is not only functional but also culturally meaningful and aesthetically compelling.

Notable Awards and Recognitions

Over the years, Charlotte and Peter Fiell have received numerous accolades for their contributions to design scholarship and publishing, including:

- Design awards from major institutions.
- Recognition for their influence in curatorial practices.
- Honorary mentions for promoting design literacy worldwide.

Conclusion

Charlotte and Peter Fiell are pivotal figures in the understanding and appreciation of design. Their work bridges scholarly research and popular engagement, making complex design histories

accessible and compelling. Whether through their meticulously researched books, inspiring exhibitions, or educational initiatives, they continue to shape the discourse around design's role in culture and society. For anyone interested in the evolution of design or seeking to deepen their appreciation of creative innovation, exploring the work of Charlotte and Peter Fiell offers valuable insights and inspiration.

Keywords: Charlotte and Peter Fiell, design history, design books, design exhibitions, influential designers, contemporary design, visual culture, design education, industrial design, furniture design, lighting design

Charlotte and Peter Fiell are renowned names in the world of design, architecture, and contemporary culture. Their collaborative work as authors, curators, and commentators has significantly shaped how audiences engage with design history and innovation. This dynamic duo's influence extends across numerous publications, exhibitions, and educational initiatives, making them pivotal figures for anyone interested in the evolution of design and its cultural implications. In this guide, we'll explore their backgrounds, key contributions, notable publications, and the enduring impact they have had on the field of design.

Who Are Charlotte and Peter Fiell?

Charlotte and Peter Fiell are a married couple with a shared passion for design. Their combined expertise spans decades, during which they have authored influential books, curated exhibitions, and contributed to scholarly discussions on design's role in society. Their work often blurs the lines between academic analysis and accessible storytelling, making complex topics approachable for both specialists and general readers.

Backgrounds and Expertise

- Charlotte Fiell: Charlotte has a background rooted in design history and cultural studies. Her focus often emphasizes contemporary design movements and their socio-cultural contexts.

- Peter Fiell: With a robust background in industrial design and architecture, Peter's insights frequently delve into design innovation, craftsmanship, and technological advancements.

Together, their complementary skills allow them to craft comprehensive narratives that contextualize design within broader historical, technological, and cultural frameworks.

Major Contributions and Notable Works

Influential Publications

The Fiell couple has authored and edited numerous books that have become staples in the fields of design and architecture. Some of their most notable publications include:

- "1000 Chairs" (2002): An exhaustive survey of chair design, exploring its evolution from functional object to icon of style and artistic expression.
- "Design of the 20th Century" (1999): A comprehensive overview of the century's most influential designers, movements, and innovations.
- "The Story of Design" (2012): A richly illustrated narrative tracing the history of design from prehistory to the digital age.
- "Fashion Design": Exploring the trajectory of fashion as an integral aspect of cultural expression and innovation.
- "The FIELL Collection": A series highlighting iconic design pieces, offering insights into their creation and significance.

Curatorial and Exhibition Work

Beyond their writing, Charlotte and Peter Fiell have curated numerous exhibitions showcasing design history and contemporary innovation. Their curatorial approach often emphasizes storytelling, contextualizing objects within cultural and societal shifts.

Educational Impact

Their work has been influential in academic settings, inspiring curricula, lectures, and seminars that introduce students and professionals alike to the richness of design history.

The Fiell Approach to Design

The Fiell duo's methodology combines rigorous research with engaging storytelling. They aim to:

- Make Design Accessible: Simplify complex concepts without sacrificing depth, making design history approachable for a broad audience.

- Highlight Cultural Contexts: Emphasize how design reflects, influences, and responds to societal changes.

- Showcase Innovation: Celebrate the creative process behind iconic objects, emphasizing craftsmanship, technology, and artistic vision.

- Foster Appreciation for Craftsmanship: Recognize the skill and artistry involved in design, encouraging respect for both historical and contemporary designers.

Key Themes in Their Work

- The Evolution of Design

Charlotte and Peter Fiell trace how design has evolved over centuries, influenced by technological advancements, cultural shifts, and economic factors. From early craftsmanship to mass production and digital design, they highlight pivotal moments and figures.

- The Intersection of Art and Function

Their work often explores how functional objects become symbols of aesthetic movement, reflecting societal values and individual identity.

- Sustainability and Future Trends

Recent writings emphasize the importance of sustainable design and innovation in addressing global challenges, positioning the Fiell couple as forward-thinking commentators.

- Design as a Cultural Phenomenon

They argue that design is not merely about objects but is deeply intertwined with cultural narratives, politics, and social change.

Influence and Legacy

Charlotte and Peter Fiell have played a crucial role in elevating the discourse around design, blending scholarly rigor with popular appeal. Their publications are widely used in academic courses, while their exhibitions and public talks inspire a broader appreciation for design's role in shaping human experience.

Key Contributions to the Field

- Bridging Academic and Popular Audiences: Their work makes scholarly insights accessible, fostering a wider appreciation.
- Documenting Design History: Their comprehensive catalogs serve as essential references.
- Encouraging Critical Engagement: They challenge audiences to consider design's impact on society and the environment.

Conclusion: The Enduring Impact of Charlotte and Peter Fiell

In sum, Charlotte and Peter Fiell have established themselves as influential voices in the study and celebration of design. Their collaborative efforts have produced a body of work that is both academically rigorous and broadly accessible, shaping how we understand the history, present, and future of design. Whether through their books, exhibitions, or lectures, they continue to inspire new generations of designers, historians, and enthusiasts to appreciate the artistry, innovation, and cultural significance of design objects and movements.

Their legacy underscores the idea that design is not just about aesthetics but a vital part of human culture—an ongoing dialogue between function, form, and society. As the world faces new challenges and opportunities, the insights and enthusiasm of Charlotte and Peter Fiell remain vital sources of inspiration and knowledge in the ever-evolving landscape of design.

Question Who are Charlotte and Peter Fiell in the design world? Charlotte and Peter Fiell are renowned design historians, authors, and curators known for their influential books and contributions to design education and appreciation. What are some notable works by Charlotte and Peter Fiell? Their notable works include 'Design of the 20th Century', 'Furniture Design', and 'The Story of Graphic Design', which are widely regarded as essential references in the field. How have Charlotte and Peter Fiell influenced design history? Through their comprehensive publications and exhibitions, they have significantly shaped the understanding and appreciation of modern and

contemporary design worldwide. Are Charlotte and Peter Fiell involved in any design exhibitions? Yes, they have curated numerous exhibitions on design topics, showcasing their expertise and promoting design awareness in museums and galleries globally. What is the focus of Charlotte and Peter Fiell's writing? Their writing primarily focuses on the history, evolution, and cultural impact of design, covering areas like furniture, graphic design, and industrial design. Have Charlotte and Peter Fiell received any awards for their work? Yes, they have received several awards and honors recognizing their contributions to design scholarship and publishing. Are Charlotte and Peter Fiell involved in teaching or academic work? While primarily known as authors and curators, they have also contributed to academic programs and lectures related to design history. Where can I find the works of Charlotte and Peter Fiell? Their books are available in major bookstores, online retailers, and libraries, and their exhibitions have been held at prominent museums worldwide. What impact have Charlotte and Peter Fiell had on design education? They have influenced design education by providing comprehensive resources and inspiring new generations of designers and historians. Are Charlotte and Peter Fiell still active in the design community? As of the latest information, they continue to contribute through writing, curating, and participating in design discussions and events.

Related keywords: design, architecture, interior design, furniture, lighting, visual inspiration, design authors, modern design, Scandinavian design, design books

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