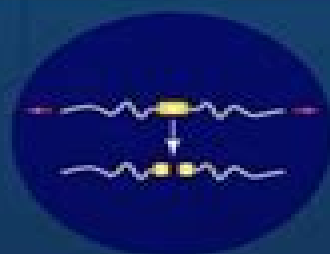


Designing Radical-Type Mechanophores with High Thermal Tolerance

Radical-type mechanophores (RMs) undergo mechanical stimuli-induced scission of their central C–C bond



However, the lack of a rational design strategy hinders the development of RMs with predetermined properties



New strategy for designing RMs with thermal tolerance



Functional groups at the *para*-position

DBU: 1,8-Diazabicyclo[5.4.0]undec-7-ene;
THF: Tetrahydrofuran



Thermal tolerance
RSE



Thermal tolerance
 σ_p



SOMO level
 σ_p^1

RSE: Radical-stabilization energy; σ_p : Hammett and modified Swain–Lupton constant at the *para*-position; SOMO: Singly occupied molecular orbital

This study can lead to novel RMs with high thermal tolerance for mechanoresponsive applications

Radical Type Design

Kristin Cullen



Radical Type Design:

The Typographic Experiment Teal Triggs, 2003 A rigorous critical overview of experimental typography since the explosion of digital media Digital tools may have allowed designers new power and flexibility but typography remains the bedrock of good graphics and one of the most exciting areas of experimentation **Type Design** Teal Triggs, 2003-10-21 From inception to commercial application and with lavishly illustrated examples this book explores the idea of type design by experimentation and how this produces innovations in typography Treating them as two distinct disciplines the book first deals with the design of typefaces and secondly with the use of type in layouts This is an essential book for professionals students academics and anyone who is interested in typography graphic design visual culture and design history BOOK JACKET **Webworks Typography** Jason Mills, 1999 Webworks typography written by Jason Mills design Interactivist designs Daniel Donnelly Gloucester Mass Rockport C1999 192 p col ill 28 cm Marine Design XIII Pentti Kujala, Liangliang Lu, 2018-06-11 Marine Design XIII collects the contributions to the 13th International Marine Design Conference IMDC 2018 Espoo Finland 10 14 June 2018 The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline The focus is on key design challenges and opportunities in the area of current maritime technologies and markets with special emphasis on Challenges in merging ship design and marine applications of experience based industrial design Digitalisation as technological enabler for stronger link between efficient design operations and maintenance in future Emerging technologies and their impact on future designs Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus Marine Design XIII covers the following research topic series State of art ship design principles education design methodology structural design hydrodynamic design Cutting edge ship designs and operations ship concept design risk and safety arctic design autonomous ships Energy efficiency and propulsions energy efficiency hull form design propulsion equipment design Wider marine designs and practices navy ships offshore and wind farms and production Marine Design XIII contains 2 state of the art reports on design methodologies and cruise ships design and 4 keynote papers on new directions for vessel design practices and tools digital maritime traffic naval ship designs and new tanker design for arctic Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design *The Typographic Medium* Kate Brideau, 2021-10-19 An innovative examination of typography as a medium of communication rather than part of print or digital media Typography is everywhere and yet widely unnoticed When we read type we fail to see type In this book Kate Brideau considers typography not as part of print media or digital media but as a medium of communication itself able to transcend the life and death of particular technologies Examining the contradiction between typographic form often overlooked and function often overpowering Brideau argues that typography is made up not of letters but of shapes and that shape is existentially and technologically central to the typographic medium After considering what constitutes typographic

form Brideau turns to typographic function and how it relates to form Examining typography's role in both the neurological and psychological aspects of reading she argues that typography's functions exceed reading typographic forms communicate but that communication is not limited to the content they carry To understand to what extent the design and operations of the typographic medium affect the way we perceive information Brideau warns we must understand the medium's own operational logic embodied in the full diversity of typographic forms Brideau discusses a range of topics from intellectual property protection for typefaces to Renaissance and Enlightenment ideal letterforms and draws on a wide variety of theoretical work including phenomenological ideas about comprehension German media archaeology and the media and communication theories of Vilém Flusser and others Hand drawn illustrations of typographic forms accompany the text

Radical Graphics/Graphic Radicals Laurel Harper, 1999-10 Today's highly accelerated visual culture a realm of converging media rapid technological advancement and unprecedented crossover among the arts popular culture and commerce compels the new breed of designer to create innovative visual languages radical graphics graphic radicals offers an unparalleled look at the work of those visionaries who are redefining graphic design in our era Book jacket

Typography, Referenced Jason Tselentis, Allan Haley, Richard Poulin, Tony Seddon, Gerry Leonidas, Ina Saltz, Kathryn Henderson, Tyler Alterman, 2012-02-01 Typography Referenced is the single most comprehensive volume covering every aspect of typography that any design student professional designer or design aficionado needs to know today In these pages you'll find Thousands of illustrated examples of contemporary usage in design Historical developments from Greek lapidary letters to the movie Helvetica Landmark designs turning single letters into typefaces Definitions of essential type specific language terms ideas principles and processes Ways technology has influenced and advanced type The future of type on the web mobile devices tablets and beyond In short Typography Referenced is the ultimate source of typographic information and inspiration documenting and chronicling the full scope of essential typographic knowledge and design from the beginnings of moveable type to the present golden age of typography *Thinking with Type* Ellen Lupton, 2014-04-15 Thinking with Type is to typography what Stephen Hawking's A Brief History of Time is to physics I Love Typography The best selling Thinking with Type in a revised and expanded second edition Thinking with Type is the definitive guide to using typography in visual communication Ellen Lupton provides clear and focused guidance on how letters words and paragraphs should be aligned spaced ordered and shaped The book covers all typography essentials from typefaces and type families to kerning and tracking to using a grid Visual examples show how to be inventive within systems of typographic form including what the rules are and how to break them This revised edition includes forty eight pages of new content with the latest information on style sheets for print and the web the use of ornaments and captions lining and non lining numerals the use of small caps and enlarged capitals mixing typefaces font formats and font licensing Plus new eye opening demonstrations of basic typography design with letters helpful exercises and dozens of additional illustrations Thinking with Type is the

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Marine Design XIII, Volume 1 Pentti Kujala,Liangliang Lu,2018-06-04 This is volume 1 of a 2 volume set Marine Design XIII collects the contributions to the 13th International Marine Design Conference IMDC 2018 Espoo Finland 10 14 June 2018 The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline The focus is on key design challenges and opportunities in the area of current maritime technologies and markets with special emphasis on Challenges in merging ship design and marine applications of experience based industrial design Digitalisation as technological enabler for stronger link between efficient design operations and maintenance in future Emerging technologies and their impact on future designs Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus Marine Design XIII covers the following research topic series State of art ship design principles education design methodology structural design hydrodynamic design Cutting edge ship designs and operations ship concept design risk and safety arctic design autonomous ships Energy efficiency and propulsions energy efficiency hull form design propulsion equipment design Wider marine designs and practices navy ships offshore and wind farms and production Marine Design XIII contains 2 state of the art reports on design methodologies and cruise ships design and 4 keynote papers on new directions for vessel design practices and tools digital maritime traffic naval ship designs and new tanker design for arctic Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design

Megastructure Reyner Banham,2020-06-16 A long sought reprint of this classic of architectural history and criticism surveying a movement that would inspire architects fantasists and filmmakers alike It is an architectural concept as alluring as it is elusive as futuristic as it is primordial Megastructure is what it sounds like a vastly scaled edifice that can contain potentially countless uses contexts and adaptations Theorized and briefly experimented with in built form in the 1960s megastructures almost as quickly went out of fashion in the profession But Reyner Banham s 1976 book compiled the origin stories and ongoing mythos of this visionary movement seeking to chart its lively rise rapid fall and ongoing meaning Now back in print after decades and with original editions fetching well over 100 on the secondary market Megastructure Urban Futures of the Recent Past is part of the recent surge in attention to this quixotic form of which some examples were built but to this day remains decades after its codification more of a poetic idea than a real architectural type Banham among the most gifted and incisive architectural critics and historians of his time sought connections between theoretical origins in Le Corbusier s more starry eyed drawings to the flurry of theories by the Japanese Metabolist architects to less intentional examples in military architecture industry infrastructure and the emerging instances in pop culture and art Had he written the book a few years later he would find an

abundance of examples in speculative art and science fiction cinema mediums where it continues to provoke wonder to this day A long sought study by an author who combined imagination wit and pioneering scholarship the republication of Megastructure is an opportunity for scholars and laypeople alike to return to the origins of this fantastic urban idea

Treasury of Authentic Art Nouveau Alphabets, Decorative Initials, Monograms, Frames, & Ornaments Ludwig Petzendorfer, 1984-01-01 Gathers hundreds of art nouveau style alphabets and discusses the development of these typefaces

Philosophy and Design Pieter E. Vermaas, P.A. Kroes, Andrew Light, Steven Moore, 2007-12-05 This volume provides the reader with an integrated overview of state of the art research in philosophy and ethics of design in engineering and architecture It contains twenty five essays that focus on engineering designing in its traditional sense on designing in novel engineering domains and on architectural and environmental designing This volume enables the reader to overcome the traditional separation between engineering designing and architectural designing

Design Elements, Typography Fundamentals Kristin Cullen, 2012-06-01 Explore the fundamentals of typography with this practical new guide An instructional reader rather than historical survey Design Elements Typography Fundamentals uses well founded guiding principles to teach the language of type and how to use it capably Designers are left with a solid ground on which to design with type Limitless potential for meaningful and creative communication exists this is the field guide for the journey

A Typographic Workbook Kate Clair, Cynthia Busic-Snyder, 2012-06-20 Lavishly illustrated with more than 450 images A Typographic Workbook Second Edition explains the process successful designers use to select space and creatively integrate fonts This essential text demonstrates the use of type as a dynamic and expressive communication tool This edition provides new and updated coverage of a broad range of topics from a logical clear historical overview of the craft to the latest digital technologies Known for its highly interactive format this Second Edition continues to include helpful review questions and multiple choice quizzes as well as many new projects and skill building exercises that help readers immediately apply what they have learned A Typographic Workbook Second Edition is a valuable professional resource for working designers and an indispensable training tool for graphic design students

20th-century Type Lewis Blackwell, 2004

Volume Kenneth FitzGerald, Rudy VanderLans, 2012-04-17 Volume a word that refers to sound collections and the measurement of space is a crucial characteristic of both graphic design and popular music While expressing different aspects of these two pervasive cultural mediums the term also introduces a discussion on their many links Volume Writings on Graphic Design Music Art and Culture is a collection of both new and classic writings by frequent Emigre contributor and educator Kenneth FitzGerald that survey the discipline of graphic design in context with the parallel creative fields of contemporary music and art The topics of the writings are diverse the roles of class in design design education Lester Bangs and Creem magazine pornography album cover art independent record labels anonymity and imaginary creative identities and design as cultural chaos maker

Digital Design Theory Helen Armstrong, 2016-06-28 Digital Design Theory bridges the gap between the

discourse of print design and interactive experience by examining the impact of computation on the field of design As graphic design moves from the creation of closed static objects to the development of open interactive frameworks designers seek to understand their own rapidly shifting profession Helen Armstrong s carefully curated introduction to groundbreaking primary texts from the 1960s to the present provides the background necessary for an understanding of digital design vocabulary and thought Accessible essays from designers and programmers are by influential figures such as Ladislav Sutnar Bruno Munari Wim Crouwel Sol LeWitt Muriel Cooper Zuzana Licko Rudy VanderLans John Maeda Paola Antonelli Luna Maurer and Keetra Dean Dixon Their topics range from graphic design s fascination with programmatic design to early strivings for an authentic digital aesthetic to the move from object based design and to experience based design Accompanying commentary assesses the relevance of each excerpt to the working and intellectual life of designers

Organic Radicals Chuanyi Wang,Abdellkader Labidi,Eric Lichtfouse,2024-03-14 Organic Radicals summarizes the applications of these materials in several fields in addition to analyzing challenges limitations and impacts of materials containing organic radicals on human plants water soil and animals Sections cover uses of organic radicals as effective precursors for block molecules building and discuss their effectiveness as precursors of organic radical containing materials synthesis and their applications in medicine biology electronics environmental sciences plastics synthesis polymers building and the several impacts after organic radicals uses In recent years the rapid development of organic radical containing materials has afforded an interesting research area in various applications Covers the main proprieties and current techniques in organic radicals measurements advantages and disadvantages Analyzes the lifecycle analysis and the stability of organic radicals their biodegradability and biocompatibility Provides a comprehensive overview about the chemical synthesis of organic radicals their physiochemical proprieties and risks caused by the presence of high amounts of organic radicals Meggs' History of Graphic Design Philip B. Meggs,Alston W. Purvis,2016-04-14 The bestselling graphic design reference updated for the digital age Meggs History of Graphic Design is the industry s unparalleled award winning reference With over 1 400 high quality images throughout this visually stunning text guides you through a saga of artistic innovators breakthrough technologies and groundbreaking developments that define the graphic design field The initial publication of this book was heralded as a publishing landmark and author Philip B Meggs is credited with significantly shaping the academic field of graphic design Meggs presents compelling comprehensive information enclosed in an exquisite visual format The text includes classic topics such as the invention of writing and alphabets the origins of printing and typography and the advent of postmodern design This new sixth edition has also been updated to provide The latest key developments in web multimedia and interactive design Expanded coverage of design in Asia and the Middle East Emerging design trends and technologies Timelines framed in a broader historical context to help you better understand the evolution of contemporary graphic design Extensive ancillary materials including an instructor s manual expanded image identification

banks flashcards and quizzes You can't master a field without knowing the history Meggs History of Graphic Design presents an all inclusive visually spectacular arrangement of graphic design knowledge for students and professionals Learn the milestones developments and pioneers of the trade so that you can shape the future *Ethical Issues in Engineering Design; Safety and Sustainability* Anke Christine van Gorp (innovation policy),2005

Radical Type Design: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Radical Type Design : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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