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the first book to cover agile modeling a new modeling technique created specifically for xp projects extreme programming xp has created a buzz in the software development community much like design patterns did several years ago although xp presents a methodology for faster software development many developers find that xp does not allow for modeling time which is critical to ensure that a project meets its proposed requirements they have also found that standard modeling techniques that use the unified modeling language uml often do not work with this methodology in this innovative book software development columnist scott ambler presents agile modeling am a technique that he created for modeling xp projects using pieces of the uml and rational s unified process rup ambler clearly explains am and shows readers how to incorporate am uml and rup into their development projects with the help of numerous case studies integrated throughout the book am was created by the author for modeling xp projects an element lacking in the original xp design the xp community and its creator have embraced am which should give this book strong market acceptance companion site at agilemodeling.com features updates links to xp and am resources and ongoing case studies about agile modeling

douglas crockford stellt in diesem e book ein subset an features zusammen deren einsatz er uneingeschränkt empfehlen kann dabei benennt er auch die facetten der sprache die gar nicht oder nur mit umwegen

funktionieren er analysiert javascript und unterscheidet klar zwischen guten schlechten und furchtbaren javascript features freuen sie sich auf pointierte statements zu funktionen schwacher und strenger typisierung dynamischen objekten dem auf globalen variablen basierenden programmiermodell u v m begleiten sie den autor bei seiner analytischen tour de force durch die verschiedenen komponenten von javascript am ende werden sie anders über objekte und funktionen vererbung arrays reguläre ausdrücke und methoden denken und javascript klüger für ihre zwecke nutzen das beste an javascript richtet sich an fortgeschrittene leser die bereits kenntnisse in javascript oder einer anderen programmiersprache mitbringen

in diesem buch nimmt der britische mathe guru seine leser mit auf eine reise durch das reich der zahlen reelle rationale irrationale komplexe ganz ganz kleine und unendlich große fraktale logarithmen hochzahlen primzahlen kusszahlen und viele mehr jedes kapitel konzentriert sich auf eine zahl oder zahlengruppe und erläutert warum sie so interessant ist jede zahl hat ihre eigene geschichte zu erzählen heißt es im vorwort stewart erzählt sie mit begeisterung und versteht es geschickt diese geschichten miteinander zu verweben ob es um die zahl pi geht oder zum schluss auch um geheimcodes den rubikwürfel und sudoku darüber hinaus erfährt man viel über die geschichte der mathematik und die rolle die sie für unsere entwicklung spielt schließlich waren es die zahlen so der autor die es der menschheit ermöglicht haben sich aus dem schlamm zu ziehen und nach den sternern zu greifen

die wege der familien clifton und barrington sind gezeichnet von glück und leid von machtspielen und schicksalsschlägen während sich sein jugendfreund giles in eine frau mit dunkler vergangenheit verliebt reist harry clifton nach sibirien harry will dem dort inhaftierten schriftsteller babakow helfen und bringt sich damit in große gefahr auch für seine frau emma die der barrington gesellschaft vorsteht schlägt eine schwere stunde

raum zeit physik forschung relativitätstheorie

während ein erbitterter krieg zwischen den herrschenden königsfamilien tobt wächst weit entfernt in den bergen ein außergewöhnliches mädchen heran romilly besitzt die gabe mit tieren sprechen zu können als herrin der falken ist sie eine wertvolle verbündete oder eine mächtige gegnerin und so versuchen die skrupellosen kriegsherren romilly auf ihre seite zu zwingen koste es was es wolle herrin der falken der longseller in attraktiver neuausstattung

die judenbuche handelt von einem unaufgeklärten mord erläutert dessen vor und nachgeschichte und wird nicht nur als kriminalgeschichte sondern vor allem als milieustudie verstanden die handlung spielt in einem entlegenen westfälischen kleinstaat des 18 jahrhunderts noch vor der zeit der grossen umwälzungen der französischen revolution

was toyota so erfolgreich macht sind vor allem die sogenannten kata besondere denk und verhaltensweisen der mitarbeiter und routinen die damit einhergehen mike rother erläutert in der erweiterten auflage seines standardwerks anhand zahlreicher beispiele wie die kata funktionieren und zeigt wie führungskräfte sie in ihr unternehmen integrieren können

bill palmer wird überraschend zum bereichsleiter der it abteilung eines autoteileherstellers befördert und muss nun eine katastrophe nach der anderen bekämpfen gleichzeitig läuft ein wichtiges softwareprojekt und die wirtschaftsprüfer sind auch im haus schnell wird klar dass mehr arbeiten mehr prioritäten setzen mehr disziplin nicht hilft das ganze system funktioniert einfach nicht eine immer schneller werdende abwärtsspirale führt dazu dass das unternehmen kurz vor dem aus steht zusammen mit einem weitsichtigen aufsichtsratsmitglied fängt bill palmer an das system umzustellen er organisiert kommunikation und workflow zwischen abteilungen neu entdeckt und entschärft flaschenhälse und stimmt sich mit dem management besser ab er schafft es damit das ruder herumzureißen das buch zeigt wie neue ideen und strategien der devops bewegung konkret umgesetzt werden können und zum erfolg führen und liest sich dabei wie ein guter wirtschaftskrimi

wozu sollte man r lernen da gibt es viele gründe weil man damit natürlich ganz andere möglichkeiten hat als mit einer tabellenkalkulation wie excel aber auch mehr spielraum als mit gängiger statistiksoftware wie spss und sas anders als bei diesen programmen hat man nämlich direkten zugriff auf dieselbe vollwertige programmiersprache mit der die fertigen analyse und visualisierungsmethoden realisiert sind so lassen sich nahtlos eigene algorithmen integrieren und komplexe arbeitsabläufe realisieren und nicht zuletzt weil r offen gegenüber beliebigen datenquellen ist von der einfachen textdatei über binäre fremdformate bis hin zu den ganz großen relationalen datenbanken zudem ist r open source und erobert momentan von der universitären welt aus die professionelle statistik r kann viel und sie können viel mit r machen wenn sie wissen wie es geht willkommen in der r welt installieren sie r und stöbern sie in ihrem gut bestückten werkzeugkasten sie haben eine konsole und eine grafische benutzeroberfläche unzählige vordefinierte analyse und

visualisierungsoperationen und pakete pakete pakete für quasi jeden statistischen anwendungsbereich können sie sich aus dem reichen schatz der r community bedienen sprechen sie r sie müssen syntax und grammatik von r nicht lernen wie im auslandsurlaub kommen sie auch hier gut mit ein paar aufgeschnappten brocken aus aber es lohnt sich wenn sie wissen was es mit r objekten auf sich hat wie sie eigene funktionen schreiben und ihre eigenen pakete schnüren sind sie bei der analyse ihrer daten noch flexibler und effektiver datenanalyse und statistik in der praxis anhand unzähliger beispiele aus medizin wirtschaft sport und bioinformatik lernen sie wie sie daten aufbereiten mithilfe der grafikfunktionen des lattice pakets darstellen statistische tests durchführen und modelle anpassen danach werden ihnen ihre daten nichts mehr verheimlichen

eine große liebe in stürmischen zeiten aurora ist behütet aufgewachsen doch als sie thane den mann aus ihren träumen trifft verliebt sie sich unsterblich in ihn aber ihre liebe wird von feindlichen mächten unter dem anführer lorcan bedroht der kriegler thane nimmt den kampf mit lorcan auf

ein spiel mit unerwartetem einsatz liebe und leidenschaft der offizier will blackshear braucht dringend geld um der witwe eines verstorbenen freundes zu helfen am spieltisch trifft er auf die kurtisane lydia slaughter die ihr talent für zahlen dazu nutzt die karten zu manipulieren will ist fasziniert von der klugen schönheit als lydia ihm anvertraut dass sie sich nach freiheit sehnt schlägt er ihr einen pakt vor gemeinsam können sie ein vermögen gewinnen doch die gefühle die für sie beide schon bald ins spiel kommen waren nicht teil des plans betörend sinnlich und emotional berührend cecilia grant ist eine unvergessliche stimme in der romantic history madeline hunter ebooks von beheartbeat herzklopfen garantiert

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Decoding the Wind Sky Dancer: A Comprehensive Guide to Wind Turbine Aerodynamics

Harnessing the power of the wind has long been a human endeavor, evolving from rudimentary windmills to the sophisticated wind turbines that dot our landscapes today. Understanding how these giants capture kinetic energy and convert it into usable electricity requires delving into the complex dance between wind and blade – a dance often referred to as the "wind sky dancer." This article aims to provide a detailed understanding of the aerodynamic principles governing wind turbine operation, offering practical insights for enthusiasts, students, and anyone seeking a deeper appreciation for this crucial renewable energy technology.

1. Understanding the Blade's Aerodynamic Profile: The Airfoil

At the heart of every wind turbine lies its blades, meticulously designed airfoil shapes. An airfoil is a specially contoured surface designed to generate lift when moving through a fluid, in this case, air. Unlike airplane wings which generate lift primarily by moving forward, wind turbine blades rely on the relative wind – the wind experienced by a stationary blade as the wind passes by. The airfoil's curved upper surface creates a longer path for airflow compared to the lower surface. This difference in airflow speeds, governed by Bernoulli's principle, results in a pressure difference, generating lift. This lift, coupled with the angle of attack (the angle between the blade's chord line and the oncoming wind), propels the blade, causing rotation. Consider the NACA 4412 airfoil, a common choice for wind turbine blades. Its "4412" designation indicates specific characteristics related to its camber (curvature) and thickness. The careful selection of airfoil profiles is crucial for optimizing performance across various wind speeds. A blade designed for high-speed winds might be less efficient at lower speeds, highlighting the complexity of airfoil design in capturing energy efficiently across the turbine's operational range.

| 2. Tip Speed Ratio: Finding the Sweet Spot

The Tip Speed Ratio (TSR) is a crucial parameter defining the effectiveness of a wind turbine. It's the ratio of the blade tip speed to the wind speed. An optimal TSR exists for each turbine design, representing the point where the lift generated is maximized for a given wind speed. A low TSR implies slow blade rotation relative to the wind speed, potentially resulting in underutilization of the wind's energy. Conversely, a high TSR might lead to excessive drag and stall, where the airflow separates from the blade's surface, significantly reducing efficiency. For example, a typical horizontal-axis wind turbine (HAWT) might have an optimal TSR around 6 to 8. This means the blade tips are moving 6 to 8 times faster than the wind. Manufacturers carefully design blades and control systems to maintain the optimal TSR across varying wind speeds, maximizing energy capture throughout the turbine's operational life.

| 3. Blade Pitch Control: Adapting to Changing Winds

Wind speed constantly fluctuates. To maintain optimal efficiency, many modern wind turbines employ blade pitch control. This involves adjusting the angle of the blades relative to the oncoming wind. At high wind speeds, the blades are pitched (rotated) to reduce the angle of attack, decreasing lift and preventing damage from excessive loads. Conversely, at low wind speeds, the pitch is adjusted to maximize lift and capture as much energy as possible. This active control system is essential for ensuring the turbine operates safely and efficiently across a wide range of wind conditions. Consider a large wind farm experiencing a sudden gust. The pitch control systems on individual turbines rapidly adjust blade angles, preventing overspeeding and protecting the entire system from potential damage. This demonstrates the critical role of sophisticated control systems in maximizing energy production and ensuring the longevity of the wind turbine.

4. Wind Shear and Turbulence: Navigating the Complexities

The wind isn't uniform; it varies both in speed and direction. Wind shear, the variation of wind speed with height, is a significant factor influencing turbine performance. Blades closer to the ground experience lower wind speeds compared to those higher up, leading to uneven loading. Turbulence, characterized by irregular fluctuations in wind speed and direction, further complicates the aerodynamics. These variations require robust blade designs and control systems to ensure stability and prevent fatigue damage. Designing blades that can efficiently operate in turbulent conditions is a significant challenge in wind turbine engineering. Advanced computational fluid dynamics (CFD) simulations play a crucial role in modeling and mitigating the negative impacts of wind shear and turbulence on turbine performance.

5. Beyond the Blades: The Nacelle and Generator

The nacelle houses the crucial components: the gearbox (in geared turbines), generator, and control systems. The gearbox steps up the rotational speed of the slow-rotating blades to a speed suitable for the generator, which converts mechanical energy into electricity. Understanding the interactions between these components and the aerodynamic forces on the blades is essential for optimizing the entire wind turbine system's efficiency. Conclusion: The wind sky dancer, while appearing simple at first glance, involves a complex interplay of aerodynamic principles, material science, and control systems. From the carefully designed airfoil profiles to the sophisticated blade pitch control and the optimization of the Tip Speed Ratio, each element contributes to the efficient harnessing of wind energy. By understanding these fundamentals, we can appreciate the ingenuity and sophistication behind this renewable energy technology that is playing an increasingly vital role in our global energy future. FAQs: 1. What are the different types of wind turbines? The most common are horizontal-axis wind turbines (HAWTs) and vertical-axis wind turbines (VAWTs), each with its own advantages and disadvantages regarding efficiency, cost, and suitability for different wind conditions. 2. How does wind turbine efficiency vary with wind speed? Wind turbine efficiency isn't linear. There's an optimal wind speed range for maximum power output. Below and above this range, efficiency decreases. 3. What are the environmental impacts of wind turbines? While generally environmentally friendly, concerns exist regarding bird and bat

mortality, visual impact on landscapes, and the manufacture and disposal of turbine components. Mitigation strategies are continually being developed. 4. How are wind turbine blades manufactured? Modern blades are typically made from composite materials like fiberglass and epoxy resins, chosen for their strength-to-weight ratio and resistance to fatigue. 5. What is the future of wind turbine technology? Ongoing research focuses on increasing efficiency, reducing costs, developing larger turbines for offshore applications, and improving the integration of wind energy into the power grid.

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