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Process Equipment and Plant Design: Principles and Practices takes a holistic approach towards process design in the chemical engineering industry, dealing with the design of individual process equipment and its configuration as a complete functional system. Chapters cover typical heat and mass transfer systems and equipment included in a chemical engineering

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curriculum, such as heat exchangers, heat exchanger networks, evaporators, distillation, absorption, adsorption, reactors and more. The authors expand on additional topics such as industrial cooling systems, extraction, and topics on process utilities, piping and hydraulics, including instrumentation and safety basics that supplement the equipment design procedure and help to arrive at a complete plant design. The chapters are arranged in sections pertaining to heat and mass transfer

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processes, reacting systems, plant hydraulics and process vessels, plant auxiliaries, and engineered safety as well as a separate chapter showcasing examples of process design in complete plants. This comprehensive reference bridges the gap between industry and academia, while exploring best practices in design, including relevant theories in process design making this a valuable primer for fresh graduates and professionals working on design projects in the industry. Serves as a

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consolidated resource for process and plant design, including process utilities and engineered safety Bridges the gap between industry and academia by including practices in design and summarizing relevant theories Presents design solutions as a complete functional system and not merely the design of major equipment Provides design procedures as pseudo-code/flow-chart, along with practical considerations

The vast majority of automatic controllers used

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to compensate industrial processes are of PI or PID type. This book comprehensively compiles, using a unified notation, tuning rules for these controllers proposed over the last seven decades (1935 to 2005). The tuning rules are carefully categorized and application information about each rule is given. The book discusses controller architecture and process modeling issues, as well as the performance and robustness of loops compensated with PI or PID controllers.

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This unique publication brings together in an easy-to-use format material previously published in a large number of papers and books. This wholly revised second edition extends the presentation of PI and PID controller tuning rules, for single variable processes with time delays, to include additional rules compiled since the first edition was published in 2003.

Sample Chapter(s). Chapter 1: Introduction (17 KB).

Contents: Controller Architecture; Tuning Rules for PI Controllers; Tuning

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Rules for PID Controllers; Performance and Robustness Issues in the Compensation of FOLPD Processes with PI and PID Controllers.

Readership: Control engineering researchers in academia and industry with an interest in PID control and control engineering practitioners using PID controllers. The book also serves as a reference for postgraduate and undergraduate students."

The Handbook of Advanced Lighting Technology is a major reference work on the subject of light source science and

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technology, with particular focus on solid-state light sources - LEDs and OLEDs - and the development of 'smart' or 'intelligent' lighting systems; and the integration of advanced light sources, sensors, and adaptive control architectures to provide tailored illumination which is 'fit to purpose.' The concept of smart lighting goes hand-in-hand with the development of solid-state light sources, which offer levels of control not previously available with



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conventional lighting systems. This has impact not only at the scale of the individual user, but also at an environmental and wider economic level. These advances have enabled and motivated significant research activity on the human factors of lighting, particularly related to the impact of lighting on healthcare and education, and the Handbook provides detailed reviews of work in these areas. The potential applications for smart lighting span the entire spectrum of

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technology, from domestic and commercial lighting, to breakthroughs in biotechnology, transportation, and light-based wireless communication. Whilst most current research globally is in the field of solid-state lighting, there is renewed interest in the development of conventional and non-conventional light sources for specific applications. This Handbook comprehensively reviews the basic physical principles and device technologies behind all

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light source types and includes discussion of the state-of-the-art. The book essentially breaks down into five major sections: Section 1: The physics, materials, and device technology of established, conventional, and emerging light sources, Section 2: The science and technology of solid-state (LED and OLED) light sources, Section 3: Driving, sensing and control, and the integration of these different technologies under the concept of smart lighting, Section 4: Human factors and applications,

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Section 5: Environmental and economic factors and implications

Jim Chappell

Process Equipment and Plant Design

Psychic Sexuality

Prepared Foods

PID Controllers

Cyber-security of SCADA and Other Industrial Control Systems

Score

This book brings together the large and scattered body of information on the theory and practice of engine testing, to which any engineer responsible for work of this kind must have access. Engine testing is a fundamental part of

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development of new engine and powertrain systems, as well as of the modification of existing systems. It forms a significant part of the practical work of many automotive and mechanical engineers, in the auto manufacturing companies, their suppliers suppliers, specialist engineering services organisations, the motor sport sector, hybrid vehicles and tuning sector. The eclectic nature of engine, powertrain, chassis and whole vehicle testing makes this comprehensive book a true must-have reference for those in the automotive industry as well as more advanced students of automotive engineering. \* The

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only book dedicated to engine testing; over 4000 copies sold of the second edition \* Covers all key aspects of this large topic, including test-cell set up, data management, dynamometer selection and use, air, thermal, combustion, mechanical, and emissions assessment \* Most automotive engineers are involved with many aspects covered by this book, making it a must-have reference

Liquidated damages and extensions of time are complex subjects, frequently forming the basis of contract claims made under the standard building and civil engineering contracts. Previous editions of Liquidated

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Damages and Extensions of Time are highly regarded as a guide for both construction industry professionals and lawyers to this complex area. The law on time and damages continues to develop with an increasing flow of judgments from the courts. Alongside this, the standard forms of contract have also developed over time to reflect prevailing approaches to contractual relationships. Against this background a third edition will be welcomed by construction professionals and lawyers alike. Retaining the overall approach of the previous editions, the author clarifies, in a highly readable but legally rigorous way,

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the many misunderstandings on time and damages which abound in the construction industry. The third edition takes account of a large volume of new case law since the previous edition was published over ten years ago, includes a new chapter on delay analysis and features significantly expanded chapters on penalty clauses, the effects of conditions precedent and time-bars, and the complexities of causation.

The Chemical Engineer

Revue A. Tijdschrift A. Zeitschrift

A.

Journal A.

In Construction Contracts

The Bio-Psychic "Anatomy" of Sexual Energies



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Informatics Abstracts

From the acclaimed authors of "Programming ASP.NET" comes this comprehensive tutorial on writing Windows applications for Microsoft's .NET platform.

In 1989, Ingo Swann was invited by Dr. Elmer Green at the Menninger Foundation to participate in experiments involving physical energy fields, body, electricity, and states of consciousness. The experiments were

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conducted within an elaborate electrostatic "copper wall environment," the design of which was based on an ancient Asian technique to activate and enhance clairvoyance and lucidity. As a result of the numerous experimental sessions undertaken, Swann's clairvoyance increased tremendously. Various states of lucid consciousness were achieved with respect to "seeing" vivid details of invisible energetic

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fields and phenomena of the biological body and its astonishing higher-energy systems. In *PSYCHIC SEXUALITY*, Swann reports on the high-energy systems associated with sexual energies that most people sense, feel, and respond to at very basic levels of consciousness even if they cannot perceive them by clairvoyance. Swann enlarges the book by providing an historical overview of several past epochs of higher-

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consciousness research during which sexual energies were vividly encountered , but which research was vigorously condemned by organized societal forces. The existence of the societal suppression is itself suppressed. If it was not for the shocking methods utilized to achieve it, the suppression is quite hilarious. Why such research has undergone societal suppression provides an interesting question. As part of an

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answer, Swann provides a step-by-step rationale that has very surprising implications

Volume one of this comprehensive approach to one of Freud's most important conceptual achievements, the theory of thinking, examines the emergence and changes in his conceptions of primary and secondary process thought in their theoretical and clinical contexts. Unlike most treatments, which emphasize their

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embeddedness in metapsychology, the text demonstrates the empirical grounding of these concepts in observation and describes how it led to a method of quantitative measurement. A summary of major, theoretically relevant findings with that method, plus a critical review of post-Freudian reexaminations of primary process, leads to a reformulation of the psychoanalytic theory of thinking that is, in Rubinstein's

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term,  
protoneurophysiological:  
as consistent as  
possible with  
contemporary knowledge  
in the brain sciences.  
In so doing, the author  
attempts to convert a  
psychoanalytic theory  
into a set of testable  
propositions using  
objectively  
quantifiable, scientific  
concepts. Moreover, he  
shows how data obtained  
with his method can be  
used to confront the  
theoretical  
propositions, verifying

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some, rejecting some, and significantly modifying others. Volume two is an enclosed compact disc. The first ten chapters constitute a detailed scoring manual, designed to be self-teaching, for applying the concepts of primary process, its controls and defenses, to data from the Rorschach and Thematic Apperception Tests, dreams, and free verbal data. The remaining chapters treat its reliability and



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validity, including a critical summary of over one hundred researches from around the world, demonstrating how it can be used not only to test psychoanalytic propositions but to illuminate issues in clinical psychiatry, clinical and developmental psychology, and personality. A concluding chapter points to many promising directions for further research.

**Theory and Practice**

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**Intelligent  
Manufacturing and Energy  
Sustainability  
Militant Mediator  
InTech  
The Industrial and  
Process Control Magazine  
Proceedings**

High Performance Control of AC Drives with Matlab®/Simulink Explore this indispensable update to a popular graduate text on electric drive techniques and the latest converters used in industry The Second Edition of High Performance Control of AC Drives with Matlab®/Simulink delivers an updated and thorough overview of topics central to the understanding of AC motor drive systems. The book includes new material on medium

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voltage drives, covering state-of-the-art technologies and challenges in the industrial drive system, as well as their components, and control, current source inverter-based drives, PWM techniques for multilevel inverters, and low switching frequency modulation for voltage source inverters. This book covers three-phase and multiphase (more than three-phase) motor drives including their control and practical problems faced in the field (e.g., adding LC filters in the output of a feeding converter), are considered. The new edition contains links to Matlab®/Simulink models and PowerPoint slides ideal for teaching and understanding the material contained within the book. Readers will also benefit from the inclusion of: A thorough introduction to high performance drives, including the

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challenges and requirements for electric drives and medium voltage industrial applications An exploration of mathematical and simulation models of AC machines, including DC motors and squirrel cage induction motors A treatment of pulse width modulation of power electronic DC-AC converter, including the classification of PWM schemes for voltage source and current source inverters Examinations of harmonic injection PWM and field-oriented control of AC machines Voltage source and current source inverter-fed drives and their control Modelling and control of multiphase motor drive system Supported with a companion website hosting online resources. Perfect for senior undergraduate, MSc and PhD students in power electronics and electric drives, High Performance

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Control of AC Drives with Matlab®/Simulink will also earn a place in the libraries of researchers working in the field of AC motor drives and power electronics engineers in industry.

Previously published; newly refreshed by author—including bonus chapters!

Petal, Georgia: Small town, second chances and sizzling romance. At twenty-eight, Lily Travis never imagined she'd be back living with her mom and dealing with her messed-up little brother. Yet that's exactly where she finds herself, seven long years after she left Petal, Georgia—and the boy who broke her heart—in the dust. Her first order of business? Getting her ex to help turn her brother's life around. If he happens to notice just how much she hasn't been missing him, all the better. As a teacher,

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Nathan Murphy is used to dealing with the unexpected, but nothing prepares him for Lily—looking like a smokin' hot vintage pinup come to life—strolling through his door and right back into his heart. He always regretted the way things ended between them; this could be his chance to make up for past mistakes. Lily can't resist Nathan's Southern-honey charm, or the way he makes her melt when she's in his arms. She fell for him once—falling for him again could destroy her. But it could also mean finding love in the last place she ever expected: home

**FREE BONUS CHAPTERS INCLUDED IN THIS EDITION!** A Visit to Petal, Part One: Alone Time All couples need a little alone time. Glimpse what the citizens of Petal are up to in between *Once and Again* and *Lost In You*, the next book in the series. Now available

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at the end of the novel! One-click with confidence. This title is part of the Carina Press Romance Promise: all the romance you're looking for with an HEA/HFN. It's a promise! This book is approximately 46,000 words

One Spring day, he sang to a flower ... and the flower sang back.- Rock superstar-composer DAN

MERRIWEATHER is the world's first true megapsychic. And when he discovers the true extent of his extraordinary powers, and his out-of-body voyages reveal the existence of top-secret US and Russian installations for the development of psychic weapons more frightening than any nuclear or bacteriological hardware, he evolves an astounding plan to transform the world...

Superpsychic author Ingo swann has drawn on the incredible experience of

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his own scientifically documented paranormal powers for this nerve-tingling breakthrough novel that's just one small step ahead of the headlines.

Handbook of Advanced Lighting Technology

A State-of-the-art Review

A Guide to Practical Laboratory Methods and Instruments

Engine Testing

Liquidated Damages and Extensions of Time

The Compu-mark Directory of U.S. Trademarks

This book includes selected, high-quality papers presented at the International Conference on Intelligent Manufacturing and Energy

Sustainability (ICIMES 2019) held at the Department of Mechanical

Engineering, Malla Reddy College of Engineering & Technology (MRCET),



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Maisammaguda, Hyderabad, India, from 21 to 22 June 2019. It covers topics in the areas of automation, manufacturing technology and energy sustainability.

This media history explores a series of portable small cameras, playback devices, and storage units that have made the production of film and video available to everyone. Covering several storage formats from 8mm films of the 1900s, through the analogue videotapes of the 1970s, to the compression algorithms of the 2000s, this work examines the effects that the shrinkage of complex machines, media formats, and processing operations has had on the dissemination of moving images. Using an archaeological approach to technical standards of media, the author provides a genealogy of

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portable storage formats for film, analog video, and digitally encoded video. This book is a step forward in decoding the storage media formats, which up to now have been the domain of highly specialised technicians.

This book is a new edition of a classic text on experimental methods and instruments in surface science. It offers practical insight useful to chemists, physicists, and materials scientists working in experimental surface science. This enlarged second edition contains almost 300 descriptions of experimental methods. The more than 50 active areas with individual scientific and measurement concepts and activities relevant to each area are presented in this book. The key areas covered are: Vacuum System Technology, Mechanical

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Fabrication Techniques, Measurement Methods, Thermal Control, Delivery of Adsorbates to Surfaces, UHV Windows, Surface Preparation Methods, High Area Solids, Safety. The book is written for researchers and graduate students.

Applied Metallurgy and Corrosion Control

A Handbook for the Petrochemical Industry

Springer

Defence Industrial Strategy

Composite Materials Handbook

Theory, Measurement, and Research

*This book serves as a comprehensive resource on metals and materials selection for the petrochemical industrial sector. The petrochemical*

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*industry involves large scale investments, and to maintain profitability the plants are to be operated with minimum downtime and failure of equipment, which can also cause safety hazards. To achieve this objective proper selection of materials, corrosion control, and good engineering practices must be followed in both the design and the operation of plants. Engineers and professional of different disciplines involved in these activities are required to have some basic understanding of metallurgy*

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*and corrosion. This book is written with the objective of servings as a one-stop shop for these engineering professionals. The book first covers different metallic materials and their properties, metal forming processes, welding, and corrosion and corrosion control measures. This is followed by considerations in material selection and corrosion control in three major industrial sectors, oil & gas production, oil refinery, and fertilizers. The importance of pressure vessel codes as well as*

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*inspection and maintenance repair practices have also been highlighted. The book will be useful for technicians and entry level engineers in these industrial sectors.*

*Additionally, the book may also be used as primary or secondary reading for graduate and professional coursework.*

*During the turbulent 1960s, civil rights leader Whitney M. Young Jr. devised a new and effective strategy to achieve equality for African Americans. Young blended interracial mediation with direct protest,*

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*demonstrating that these methods pursued together were the best tactics for achieving social, economic, and political change.*

*Militant Mediator is a powerful reassessment of this key and controversial figure in the civil rights movement. It is the first biography to explore in depth the influence Young's father, a civil rights leader in Kentucky, had on his son. Dickerson traces Young's swift rise to national prominence as a leader who could bridge the concerns of deprived blacks and*

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*powerful whites and mobilize the resources of the white America to battle the poverty and discrimination at the core of racial inequality. Alone among his civil rights colleagues—Martin Luther King Jr., Roy Wilkins, James Farmer, John Lewis, and James Forman—Young built support from black and white constituencies. As a National Urban League official in the Midwest and as a dean of the School of Social Work at Atlanta University during the 1940s and 1950s, Young developed*



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*a strategy of mediation and put it to work on a national level upon becoming the executive director of the League in 1961. Though he worked with powerful whites, Young also drew support from middle-and working-class blacks from religious, fraternal, civil rights, and educational organizations. As he navigated this middle ground, though, Young came under fire from both black nationalists and white conservatives.*

*The authors of the best-selling book*

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*Theory, Design, and Tuning once again combine their extensive knowledge in the PID arena to bring you an in-depth look at the world of PID control. A new book, Advanced PID Control builds on the basics learned in PID Controllers but augments it through use of advanced control techniques. Design of PID controllers are brought into the mainstream of control system design by focusing on requirements that capture effects of load disturbances, measurement noise, robustness to process*

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*variations and maintaining set points. In this way it is possible to make a smooth transition from PID control to more advanced model based controllers. It is also possible to get insight into fundamental limitations and to determine the information needed to design good controllers. The book provides a solid foundation for understanding, operating and implementing the more advanced features of PID controllers, including auto-tuning, gain scheduling and adaptation. Particular attention is given to specific*

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*challenges such as reset windup, long process dead times, and oscillatory systems. As in their other book, modeling methods, implementation details, and problem-solving techniques are also presented.*

*Handbook of PI and PID Controller Tuning Rules*

*Advanced PID Control*

*Advanced Materials & Processes*

*Approval Guide*

*Chilton's I & C S*

*American Ceramic Society Bulletin*

The book deals with the theory and practice of all electrophoretic

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steps leading to proteome analysis, i.e. isoelectric focusing (including immobilized pH gradients), sodium dodecyl sulphate electrophoresis (SADS-PAGE) and finally two-dimensional maps. It is a reasoned collection of all modern, relevant, up-to-date methodologies leading to successful fractionation, analysis and characterization of every polypeptide spot in 2-D map analysis. It includes chapters on the most sophisticated mass spectrometry developments and it helps the reader in navigating through the most important databases in proteome analysis,

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including step by step tours in selected sites. Yet, this book's unique strength and feature is the fact that it combines not only practice (in common with any other book on this topic) but also theory, by giving a detailed treatment on the most advanced theoretical treatments of steady-state techniques, such as isoelectric focusing and immobilized pH gradients. A lot of this theory is newly developed and presented to the public for the first time. Thus, this book should satisfy not only the needs of every day practitioners, but also the desires of the most advanced theoreticians in the

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field, who will surely appreciate the novel theories presented here. Also the methodological section contains several as yet unpublished protocols, correcting some of the existing ones and showing the pitfall and limitations of even well ingrained protocols in proteome analysis, which are here critically re-evaluated for the first time.

This strategy document sets out the Government's analysis of the UK's defence industrial capabilities requirement, and is divided into three parts: i) a strategic overview including information on the principles and processes that underpin

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procurement and industrial decisions, the need for transparency, the evolving defence industry environment, developments and innovation in defence research technology; ii) a review of different industrial sectors and cross-cutting industrial capabilities; and iii) how the strategy will be implemented and an assessment of implications for the Ministry of Defence and industry as a whole.

Instrumentation and automatic control systems.

informatics

Portable Moving Images

Star Fire



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## Theory and Practice of All Relevant Electrophoretic Steps Defence White Paper Metallurgia

This book provides a comprehensive overview of the fundamental security of Industrial Control Systems (ICSs), including Supervisory Control and Data Acquisition (SCADA) systems and touching on cyber-physical systems in general. Careful attention is given to providing the reader with clear and comprehensive background and reference material for each topic pertinent to ICS security. This book offers answers to such questions as: Which specific operating and security issues may lead to a loss of efficiency and operation? What methods can be used to monitor and protect my system? How can I design my system to reduce threats? This book offers chapters

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on ICS cyber threats, attacks, metrics, risk, situational awareness, intrusion detection, and security testing, providing an advantageous reference set for current system owners who wish to securely configure and operate their ICSs. This book is appropriate for non-specialists as well. Tutorial information is provided in two initial chapters and in the beginnings of other chapters as needed. The book concludes with advanced topics on ICS governance, responses to attacks on ICS, and future security of the Internet of Things.

Principles and Practices

Primary Process Thinking

Experimental Innovations in Surface Science

Whitney M. Young Jr.

Automatic Typographic-quality

Typesetting Techniques

Programming .NET Windows

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## Applications