

George T Austin Shreve S Chemical Process Industries 5th Edition Mcgraw Hill Book Company

"The most complete, up-to-date, problem-solving toolkit for chemical engineers and process designers. **Industrial Chemical Process Design, Second Edition** provides a step-by-step methodology and 25 downloadable, customizable, needs-specific software applications that offer quick, accurate solutions to complex process design problems. These applications uniquely fill the gaps left by large, very expensive commercial process simulation software packages used to select, size, and design industrial chemical process equipment. Written by a hands-on industry consultant and featuring more than 200 illustrations, this book thoroughly details: Sizing and cost estimating of process unit operation equipment Design and rating of fractionation equipment and three-phase separation equipment Chemical optimization Commercial distillation Packaged plant cost analysis Estimating cost for modular packages Performing operations such as liquid-liquid extraction and gas liquid separation vessel sizing and rating Green engineering New to the Second Edition: Added focus on sustainability with new green engineering coverage: crude oil database; vegetable oils and plant greenhouse production for use in automobile fuels; gasoline and diesel fuel database; greenhouse fuels; water removal treatment in three-phase vessel design New focus on engineering economics Simplified shell/tube design method and improved shell/tube exchanger software improvements Fluid flow coverage includes both single- and two-phase flow and the very desirable addition of complete process engineering of NOx removal and catalytic SCR reactor processes necessary in all electric generator power plants and refinery furnace systems (per mandatory EPA regulations) Coverage of the Fischer-Tropsch process converting natural methane gas to crude oil products, liquids, gasoline, diesel, and jet fuel - all sulfur-free! Includes a plan to decrease reliance on crude oil imports Contains a packaged cost analysis natural gas-to-liquids plant turn-key software program "--

Margaret George's exhaustively researched novel skillfully weaves both historical fact and plausible fiction in bringing the story of Mary Queen of Scots to life. She was a child crowned a queen.... A sinner hailed as a saint.... A lover denounced as a whore... A woman murdered for her dreams... Margaret George's *Mary Queen of Scotland and the Isles* brings to life the fascinating story of Mary, who became the Queen of Scots when she was only six days old. Raised in the glittering French court, returning to Scotland to rule as a Catholic monarch over a newly Protestant country, and executed like a criminal in Queen Elizabeth's England, Queen Mary lived a life like no other, and Margaret George weaves the facts into a stunning work of historical fiction. "With a seamless use of original letters, diaries, and poems: a popular, readable, inordinately moving tribute to a remarkable queen." -- Kirkus Reviews

An ex-jazz drummer wants nothing more than to be a good father in this moving family novel by the New York Times–bestselling author of *The Dutch House*. When his lover takes away his son, he's left only with his Beale Street, Memphis bar. He hires a young waitress named Fay Taft who brings with her a desperate, dangerous brother, Carl, and the possibility of new intimacy. Nickel finds himself consumed with Fay and Carl's dead father—Taft—obsessing over and reconstructing the life of a man he never met. A stunning artistic achievement, Taft confirms Ann Patchett's standing as one of the most gifted writers of her generation and reminds us of our deepest instincts to protect the people we love. "What could be merely a literary parlor trick—keeping three stories in the air at once—becomes...as resonant as a blues song, each story harmonizing with and answering others.... Expect miracles when you read Ann Patchett's fiction."—New York Times "A moving emblem of fatherhood's rarely explored passion."—Los Angeles Times "Patchett writes with remarkable conviction and attention to telling detail.... [She] is excellent at portraying the steady love and interest that holds the family members together, even though that love and interest isn't always successful in preserving the members from danger."—Jane Smiley, Pulitzer Prize–winning author of *Golden Age* "Strikingly original."—Kirkus Reviews

Must-have reference for processes involving liquids, gases, and mixtures Reap the time-saving, mistake-avoiding benefits enjoyed by thousands of chemical and process design engineers, research scientists, and educators. *Properties of Gases and Liquids, Fifth Edition*, is an all-inclusive, critical survey of the most reliable estimating methods in use today --now completely rewritten and reorganized by Bruce Poling, John Prausnitz, and John O'Connell to reflect every late-breaking development. You get on-the-spot information for estimating both physical and thermodynamic properties in the absence of experimental data with this property data bank of 600+ compound constants. Bridge the gap between theory and practice with this trusted, irreplaceable, and expert-authored expert guide -- the only book that includes a critical analysis of existing methods as well as hands-on practical recommendations. Areas covered include pure component constants; thermodynamic properties of ideal gases, pure components and mixtures; pressure-volume-temperature relationships; vapor pressures and enthalpies of vaporization of pure fluids; fluid phase equilibria in multicomponent systems; viscosity; thermal conductivity; diffusion coefficients; and surface tension.

The Lighthouse Keeper's Daughter

The Lives of Stella Bain

Garfield Tips the Scales: His Eighth Book

The Last Town

Unit Processes in Organic Synthesis

Shreve's Chemical Process Industries McGraw-Hill Companies

NEW YORK TIMES BESTSELLER • A deeply affecting coming-of-age memoir about family, love, loss, basketball—and life itself—by the beloved author of *The Prince of Tides* and *The Great Santini* During one unforgettable season as a Citadel cadet, Pat Conroy becomes part of a basketball team that is ultimately destined to fail. And yet for a military kid who grew up on the move, the Bulldogs provide a sanctuary from the cold, abrasive father who dominates his life—and a crucible for becoming his own man. With all the drama and incandescence of his bestselling fiction, Conroy re-creates his pivotal senior year as captain of the Citadel Bulldogs. He chronicles the highs and lows of that fateful 1966–67 season, his tough disciplinarian coach, the joys of winning, and the hard-won lessons of losing. Most of all, he recounts how a group of boys came together as a team, playing a sport that would become a metaphor for a man whose spirit could never be defeated. *Praise for My Losing Season* "A superb accomplishment, maybe the finest book Pat Conroy has written."—*The Washington Post Book World* "A wonderfully rich memoir that you don't have to be a sports fan to love."—*Houston Chronicle* "A memoir with all the Conroy trademarks . . . Here's ample proof that losers always tell the best stories."—*Newsweek* "In *My Losing Season*, Conroy opens his arms wide to embrace his difficult past and almost everyone in it."—*New York Daily News* "Haunting, bittersweet and as compelling as his bestselling fiction."—*Boston Herald*

Garfield the cat encounters dogs, mice, birds, gloomy Mondays, lasagna, baths, the vet, diets, and self-improvement plans.

Written by a Mexican-American woman and her coauthor during the 1930s and 1940s, *Caballero* remained unprinted and unavailable to the public for over 50 years. The novel examines the impact of the 1846–48 war with Mexico on a tejano family and particularly on Mexican women. Paper edition (unseen), \$19.95. Annotation copyright by Book News, Inc., Portland, OR

A Novel

Taft

Thematic Explorations of Interracial Literature

A Companion Guide and History

A Comprehensive Review, with Copious Extracts and Criticisms for the Use of Schools and the General Reader

WINNER OF THE NATIONAL BOOK AWARD AND THE PRIX DU MEILLEUR LIVRE ÉTRANGER *The Centaur* is a

modern retelling of the legend of Chiron, the noblest and wisest of the centaurs, who, painfully wounded yet unable to die, gave up his immortality on behalf of Prometheus. In the retelling, Olympus becomes small-town Olinger High School; Chiron is George Caldwell, a science teacher there; and Prometheus is Caldwell's fifteen-year-old son, Peter. Brilliantly conflating the author's remembered past with tales from Greek mythology, John Updike translates Chiron's agonized search for relief into the incidents and accidents of three winter days spent in rural Pennsylvania in 1947. The result, said the judges of the National Book Award, is "a courageous and brilliant account of a conflict in gifts between an inarticulate American father and his highly articulate son."

From the award-winning author of *All the Broken Pieces* and *Serafina's Promise* comes a breathtaking new novel that is her most transcendent and widely accessible work to date.

"A marriage is always two intersecting stories." This realization comes perhaps too late to the husband of Etna Bliss—a man whose obsession with his young wife begins at the moment of their first meeting, as he helps Etna and her companions escape from a fire in a hotel restaurant, and culminates in a marriage doomed by secrets and betrayal. Written with the intelligence and grace that are the hallmarks of Anita Shreve's bestselling novels, this gripping tale of desire, jealousy, and loss is peopled by unforgettable characters as real as the emotions that bring them together.

"This book takes you through the collection gallery by gallery, illuminating the art and installations in each room"--From preface.

The Centaur

Marion County, Texas, 1836-1936

Testimony

The Valley

American Paintings to 1945

George Edward Stanley's powerful *Night Fires* explores the influence of the Klan in 1920's Oklahoma, and the danger of succumbing to peer pressure.

This authoritative catalogue of the Corcoran Gallery of Art's renowned collection of pre-1945 American paintings will greatly enhance scholarly and public understanding of one of the finest and most important collections of historic American art in the world. Composed of more than 600 objects dating from 1740 to 1945.

Why can a "white" woman give birth to a "black" baby, while a "black" woman can never give birth to a "white" baby in the United States? What makes racial "passing" so different from social mobility? Why are interracial and incestuous relations often confused or conflated in literature, making "miscegenation" appear as if it were incest? Werner Sollors examines these questions and others in *"Neither Black nor White yet Both,"* a fully researched investigation of literary works that, in the past, have been read more for a black-white contrast of "either-or" than for an interracial realm of "neither, nor, both, and in-between." From the origins of the term "race" to the cultural sources of the "Tragic Mulatto," and from the calculus of color to the retellings of various plots, Sollors examines what we know about race, analyzing recurrent motifs in scientific and legal works as well as in fiction, drama, and poetry. Copyright © Libri GmbH. All rights reserved.

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Chemical Process Industries

Unbound: A Novel in Verse

Mary Queen of Scotland and The Isles

Fluid flow, heat transfer and mass transfer

"All the sizzle, chaos, noise and scariness of war is clay in the hands of ace storyteller Lynch." -- Kirkus Reviews for the World War II series Discover the secret missions behind America's greatest conflicts. Fergus Frew thought he knew what to expect when he signed up with the Navy's demolitions team. But as the Korean War rages on, Fergus and his fellow divers -- AKA "frogmen" -- are tasked with more than just scouting mudflats. Soon they're planting mines. And sabotaging tunnels, bridges... and even fishing nets. Strangest of all, it falls to Fergus to transport a spy into the country -- and that means traveling far from Navy-controlled waters. But frogmen are amphibious. And Fergus may not realize it, but he's in a position to change the way the whole world thinks about combat. National Book Award finalist Chris Lynch continues his explosive fiction series based on the real-life, top-secret history of US black ops and today's heroic Navy SEALs.

This book bridges the gap between theory and practice. It provides fundamental information on heterogeneous catalysis and the practicalities of the catalysts and processes used in producing ammonia, hydrogen and methanol via hydrocarbon steam reforming. It also covers the oxidation reactions in making formaldehyde from methanol, nitric acid from ammonia and sulphuric acid from sulphur dioxide. Designed for use in the chemical industry and by those in teaching, research and the study of industrial catalysts and catalytic processes. Students will also find this book extremely useful for obtaining practical information which is not available in more conventional textbooks.

The next adventure of the Darcy family from the author of *Mr. Darcy's Daughters* -- the story of a reluctant heiress who has been left a widow by Darcy's cousin Christopher. It is a truth universally acknowledged that a single woman in possession of a good fortune must be in want of a husband. So say the friends and family of impoverished widow Octavia Darcy when she unexpectedly inherits a fortune, but she has a different view and looks forward to a new life of independence. Escaping from the efforts of her half brothers and sisters to marry her off, Octavia goes to Yorkshire to find out more about the family she never knew, and while she is there she meets and crosses swords with landowner and politician Sholto Rutherford. When she returns to London to share a house with the dashing Lady Susan, Octavia, now secure in her new life, becomes caught up in the romantic problems of her niece. Then, the shadow of George Warren, the old nemesis of the Darcy family, falls over her, and she is threatened with the loss

of both inheritance and reputation.

From The New York Times bestselling author of *The Girl Who Came Home* comes a historical novel inspired by true events, and the extraordinary female lighthouse keepers of the past two hundred years. "They call me a heroine, but I am not deserving of such accolades. I am just an ordinary young woman who did her duty." 1838: Northumberland, England. Longstone Lighthouse on the Farne Islands has been Grace Darling's home for all of her twenty-two years. When she and her father rescue shipwreck survivors in a furious storm, Grace becomes celebrated throughout England, the subject of poems, ballads, and plays. But far more precious than her unsought fame is the friendship that develops between Grace and a visiting artist. Just as George Emmerson captures Grace with his brushes, she in turn captures his heart. 1938: Newport, Rhode Island. Nineteen-years-old and pregnant, Matilda Emmerson has been sent away from Ireland in disgrace. She is to stay with Harriet, a reclusive relative and assistant lighthouse keeper, until her baby is born. A discarded, half-finished portrait opens a window into Matilda's family history. As a deadly hurricane approaches, two women, living a century apart, will be linked forever by their instinctive acts of courage and love.

Chemical Engineering Thermodynamics

Written in My Own Heart's Blood

My Losing Season

The Isabella Stewart Gardner Museum

Night Fires

**Named one of Wall Street Journal's Best Books of 2015 *Selected as a Military Times's Best Book of the Year "You're going up the Valley." Black didn't know its name, but he knew it lay deeper and higher than any other place Americans had ventured. You had to travel through a network of interlinked valleys, past all the other remote American outposts, just to get to its mouth. Everything about the place was myth and rumor, but one fact was clear: There were many valleys in the mountains of Afghanistan, and most were hard places where people died hard deaths. But there was only one Valley. It was the farthest, and the hardest, and the worst. When Black, a deskbound admin officer, is sent up the Valley to investigate a warning shot fired by a near-forgotten platoon, he can only see it as the final bureaucratic insult in a short and unhappy Army career. What he doesn't know is that his investigation puts at risk the centuries-old arrangements that keep this violent land in fragile balance, and will launch a shattering personal odyssey of obsession and discovery as Black reckons with the platoon's dark secrets, accumulated over endless hours fighting and dying in defense of an indefensible piece of land. The Valley is a riveting tour de force that changes our understanding of the men who fight our wars and announces John Renehan as one of the great American storytellers of our time.*

NEW YORK TIMES BESTSELLER • Diana Gabaldon returns to her Outlander universe in "The Space Between," an irresistible novella brimming with adventure, history, and suspense. Features a preview of the much-anticipated new Outlander novel, Written in My Own Heart's Blood! Joan MacKimmie is on her way to Paris to take up her vocation as a nun. Yet her decision is less a matter of faith than fear, for Joan is plagued by mysterious voices that speak of the future, and by visions that mark those about to die. The sanctuary of the nunnery promises respite from these unwanted visitations . . . or so she prays. Her chaperone is Michael Murray, a young widower who, though he still mourns the death of his wife, finds himself powerfully drawn to his charge. But when the time-traveling Comte St. Germain learns of Joan's presence in Paris, and of her link to Claire Fraser—La Dame Blanche—Murray is drawn into a battle whose stakes are not merely the life but the very soul of the Scotswoman who, without even trying, has won his heart. Praise for Diana Gabaldon's Outlander series "A grand adventure written on a canvas that probes the heart, weighs the soul and measures the human spirit across [centuries]."—CNN, on The Fiery Cross "History comes deliciously alive on the page."—New York Daily News, on Outlander "Abounds with Gabaldon's sexy combination of humor, wild adventure and, underlying it all, the redemptive power of true love."—The Dallas Morning News, on The Fiery Cross "Gabaldon is a born storyteller. . . . The pages practically turn themselves."—The Arizona Republic, on Dragonfly in Amber "Wonderful . . . This is escapist historical fiction at its best."—San Antonio Express-News, on Drums of Autumn

Substantially revising and updating the classic reference in the field, this handbook offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. It provides not only the underlying science and technology for important industry sectors, but also broad coverage of critical supporting topics. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry (specifically, biomass conversion), Practical Catalysis, and Environmental Measurements; as well as expanded treatment of Safety, chemistry plant security, and Emergency Preparedness. Understanding these factors allows them to be part of the total process and helps achieve optimum results in, for example, process development, review, and modification. Important topics in the energy field, namely nuclear, coal, natural gas, and petroleum, are covered in individual chapters. Other new chapters include energy conversion, energy storage, emerging nanoscience and technology. Updated sections include more material on biomass conversion, as well as three chapters covering biotechnology topics, namely, Industrial Biotechnology, Industrial Enzymes, and Industrial Production of Therapeutic Proteins.

Industrial Chemical Process Analysis and Design uses chemical engineering principles to explain the transformation of basic raw materials into major chemical products. The book discusses traditional processes to create products like nitric acid, sulphuric acid, ammonia, and methanol, as well as more novel products like bioethanol and biodiesel. Historical perspectives show how current chemical processes have developed over years or even decades to improve their yields, from the discovery of the chemical reaction or physico-chemical principle to the industrial process needed to yield commercial quantities. Starting with an introduction to process design, optimization, and safety, Martin then

provides stand-alone chapters—in a case study fashion—for commercially important chemical production processes. Computational software tools like MATLAB®, Excel, and Chemcad are used throughout to aid process analysis. Integrates principles of chemical engineering, unit operations, and chemical reactor engineering to understand process synthesis and analysis Combines traditional computation and modern software tools to compare different solutions for the same problem Includes historical perspectives and traces the improving efficiencies of commercially important chemical production processes Features worked examples and end-of-chapter problems with solutions to show the application of concepts discussed in the text

White Oleander

Handbook of Industrial Chemistry and Biotechnology

The Properties of Gases and Liquids

The Tennis Partner

A Memoir

The unforgettable story of a young woman's odyssey through a series of Los Angeles foster homes on her journey to redemption. Astrid is the only child of a single mother, Ingrid, a brilliant, obsessed poet who wields her luminous beauty to intimidate and manipulate men. Astrid worships her mother and cherishes their private world full of ritual and mystery - but their idyll is shattered when Astrid's mother falls apart over a lover.

Deranged by rejection, Ingrid murders the man, and is sentenced to life in prison. *White Oleander* is the unforgettable story of Astrid's journey through a series of foster homes and her efforts to find a place for herself in impossible circumstances. Each home is its own universe, with a new set of laws and lessons to be learned. With determination and humor, Astrid confronts the challenges of loneliness and poverty, and strives to learn who a motherless child in an indifferent world can become. Oprah Winfrey enjoyed this gripping first novel so much that she not only made it her book club pick, she asked if she could narrate the audio release.

An unforgettable, illuminating story of how men live and how they survive, from the acclaimed New York Times bestselling author of *Cutting for Stone* When Abraham Verghese, a physician whose marriage is unraveling, relocates to El Paso, Texas, he hopes to make a fresh start as a staff member at the county hospital. There he meets David Smith, a medical student recovering from drug addiction, and the two men begin a tennis ritual that allows them to shed their inhibitions and find security in the sport they love and with each other. This friendship between doctor and intern grows increasingly rich and complex, more intimate than two men usually allow. Just when it seems nothing can go wrong, the dark beast from David's past emerges once again—and almost everything Verghese has come to trust and believe in is threatened as David spirals out of control.

This edition has 65 new images, making a total of 500. The original configurations were altered so that there is only one species per plate. The text is a revision of the *Ornithological Biography*, rearranged according to Audubon's *Synopsis of the Birds of North America* (1839).

'Atonement with just the tiniest dash of *Downton Abbey*' Red magazine 'Gripping and moving' Sunday Times Hauled in a cart to a field hospital in northern France in March 1916, an American woman wakes from unconsciousness to the smell of gas gangrene, the sounds of men in pain, and an almost complete loss of memory: she knows only that she can drive an ambulance, she can draw, and her name is Stella Bain. A stateless woman in a lawless country, Stella embarks on a journey to reconstruct her life. Suffering an agonising and inexplicable array of symptoms, she finds her way to London. There, Dr August Bridge, a cranial surgeon turned psychologist, is drawn to tracking her amnesia to its source. What brutality was she fleeing when she left the tranquil seclusion of a New England college campus to serve on the Front; for what crime did she need to atone - and whom did she leave behind? Vivid, intense and gripping, packed with secrets and revelations, *The Lives of Stella Bain* is at once a ravishing love story and an intense psychological mystery.

Shreve's Chemical Process Industries

Neither Black Nor White Yet Both

A History of Jefferson

The Space Between: An Outlander Novella

Industrial Chemical Process Design, 2nd Edition

In her now classic novel *Outlander*, Diana Gabaldon told the story of Claire Randall, an English ex-combat nurse who walks through a stone circle in the Scottish Highlands in 1946, and disappears . . . into 1743. The story unfolded from there in seven bestselling novels, and CNN has called it “a grand adventure written on a canvas that probes the heart, weighs the soul and measures the human spirit across [centuries].” Now the story continues in *Written in My Own Heart’s Blood*. 1778: France declares war on Great Britain, the British army leaves Philadelphia, and George Washington’s troops leave Valley Forge in pursuit. At this moment, Jamie Fraser returns from a presumed watery grave to discover that his best friend has married his wife, his illegitimate son

has discovered (to his horror) who his father really is, and his beloved nephew, Ian, wants to marry a Quaker. Meanwhile, Jamie's wife, Claire, and his sister, Jenny, are busy picking up the pieces. The Frasers can only be thankful that their daughter Brianna and her family are safe in twentieth-century Scotland. Or not. In fact, Brianna is searching for her own son, who was kidnapped by a man determined to learn her family's secrets. Her husband, Roger, has ventured into the past in search of the missing boy . . . never suspecting that the object of his quest has not left the present. Now, with Roger out of the way, the kidnapper can focus on his true target: Brianna herself. Written in My Own Heart's Blood is the brilliant next chapter in a masterpiece of the imagination unlike any other.

"Secret Service agent Ethan Burke arrived in Wayward Pines, Idaho, three weeks ago, where people's life choices are dictated. Children are taught that David Pilcher, the town's creator, is god. No one is allowed to leave. But Ethan has discovered the astonishing secret of what lies beyond the electrified fence that surrounds Wayward Pines"--

At a New England boarding school, a sex scandal is about to break. Even more shocking than the sexual acts themselves is the fact that they were caught on videotape. A Pandora's box of revelations, the tape triggers a chorus of voices -- those of the men, women, teenagers, and parents involved in the scandal -- that details the ways in which lives can be derailed or destroyed in one foolish moment. Writing with a pace and intensity surpassing even her own greatest work, Anita Shreve delivers in Testimony a gripping emotional drama with the impact of a thriller. No one more compellingly explores the dark impulses that sway the lives of seeming innocents, the needs and fears that drive ordinary men and women into intolerable dilemmas, and the ways in which our best intentions can lead to our worst transgressions.

Southern Literature from 1579-1895

Corcoran Gallery of Art

All He Ever Wanted

Caballero

The Second Mrs. Darcy