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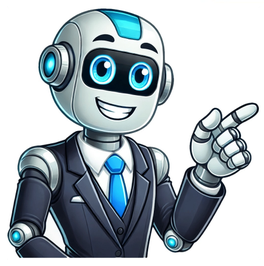

perry's chemical engineers' handbook, ninth edition provides comprehensive coverage of various aspects of chemical engineering. the book has undergone thorough revisions to incorporate the latest technological advancements and processes. it offers in-depth details on numerous topics, including chemical processes, reactor modeling, biological processes, biochemical separation, process and chemical plant safety, and many more. unit conversion factors and symbols, physical and chemical data, mathematics, thermodynamics, heat and mass transfer, fluid and particle dynamics, reaction kinetics, process control and instrumentation, process economics, transport and storage of fluids, heat transfer operations and equipment, psychrometry, evaporative cooling, and solids drying are some of the key areas covered. the book also explores biochemical engineering, waste management, including air, wastewater, and solid waste management, as well as process safety and energy resources. materials of construction share is a comprehensive resource for chemical engineers. The development of Perry's Chemical Engineers' Handbook spans over eight decades, with each edition building upon its predecessor to become a cornerstone of chemical engineering education and practice. The first edition was edited by John H. Perry who was a PhD physical chemist and chemical engineer for E. I. du Pont de Nemours & Co. W. S. Calcott (ChE) of DuPont was his assistant editor. It was published in 1934. The second edition was published in 1941. The third edition was edited by John H. Perry and published in 1950 The fourth edition was edited by Robert H. Perry, Cecil H. Chilton, and Sidney D. Kirkpatrick and published in 1963. The fifth edition was edited by Robert H. Perry and published in 1973. The sixth edition ("50th Anniversary Edition")[citation needed] was published in 1984 and edited by Robert H. Perry and Donald W. Green. The 1997 seventh edition was edited by Robert H. Perry and Donald W. Green. The 2640 page 2007–2008 eighth edition was edited by Don W. Green and Robert H. Perry.[3] and published October 2007. Notable individuals have contributed to the handbook's success, including Don W. Green who has served as editor-in-chief since the sixth edition, holding a B.S. in petroleum engineering from the University of Tulsa, and M.S. and PhD Degrees in chemical engineering from the University of Oklahoma. Marylee Southard, associate editor, brings expertise in inorganic chemicals production with her PhD degrees in chemical engineering from the University of Kansas. The handbook has undergone significant revisions, including updates in 2018–2019 ninth edition edited by Don W. Green and Marylee W. Southard. The 85th anniversary edition promises to deliver cutting-edge content for information, data, and insight essential to chemical engineers. With thorough revisions, the 9th Edition equips students and faculty with up-to-date knowledge on technology advances in chemical engineering.Perry's Chemical Engineers' Handbook, Ninth Edition, has been thoroughly revised to provide up-to-date data and insight into the latest advances in technology related to chemical engineering. As a leading resource, Perry's is unparalleled in covering everything chemical engineers need to know at every stage of their career. ========== The Process of Distillation and Solid Drying in Chemical Engineering ========== Distillation and solid drying are crucial processes in chemical engineering that involve the separation of components based on differences in boiling points or solubility. Other key methods include gas absorption, liquid-liquid extraction, adsorption, and ion exchange. These processes require specialized equipment to effectively separate and purify materials.