



# Sustainability Engineering: A Design Guide for the Chemical Process Industry

By Jeffery Perl

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This book explores sustainability engineering through the lens of the manufacturing and chemical process industries to elucidate the safe and economic implementation of process designs used to transform raw materials into useful finished products. The author applies the tenets of sustainability science to develop an engineering methodology that supports the perpetual availability of raw materials through recycling/reuse/repurposing, incorporates inexhaustible supplies, such as solar energy and municipal waste, and encompasses the husbandry of these resources in a manner that minimizes negative environmental impacts. Anyone involved in the design or manufacture of chemicals, or the upgrade of existing manufacturing processes, will benefit from this book's suggestions for identifying improvement options, while adding the pivotal aspect of sustainability to the usual cost and safety equation optimization elements.

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About the Author

Dr. Jeffery Perl, PE, CHMM has been President of Chicago Chem Consultants Corporation (CCC) for the past 30 years. Over the years, CCC's work has focused on chemical process engineering, hazardous waste treatment and environment, safety and occupational health management systems (ESOH-MS) and related engineering activities. Dr. Perl is a former plant manager and process engineer for a national solvent chemical recovery and recycling business. His specialties include chemical process design, engineering and troubleshooting, pollution prevention, Superfund remediation design, negotiations with state regulators, chemical separation processes and bringing new products to market. He has contributed forensic engineering evidence and expert testimony regarding root cause of process failures leading to workplace accidents involving death or injury as well as premature production failure, as well as Fraud, Waste and Abuse in federal government contracting. He provides investment and technical reviews of new product or technical service opportunities for corporate, venture capital and private investors. Jeff also served as Adjunct Professor of Chemical Engineering, University of Illinois at Chicago, for 6 years, from 2008-2014, teaching the two semester senior chemical process design engineering course. Dr. Perl has authored numerous technical papers, and has undertaken conference presentations and chaired symposia. He served in the United States Air Force Reserve from 1993 through 2004 with three by-name request HQ assignments over 10 years, including work on AF environmental and pollution prevention contracting and compliance issues for the AF Center for Environmental Excellence, San Antonio TX HQ and later in the office of The Air Force Surgeon General in Washington DC, where he focused on active duty readiness issues.

Dr. Perl is a Fellow of the American Institute of Chemical Engineers (AIChE) as well as The Institute of Hazardous Materials Management (IHMM). For the past 8 years Jeff has served on the National Council of Examiners of Engineers and Surveyors (NCEES), professional engineering (PE) chemical exam licensing committee. Jeff is a private pilot who also enjoys tinkering with geothermal heat pumps

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