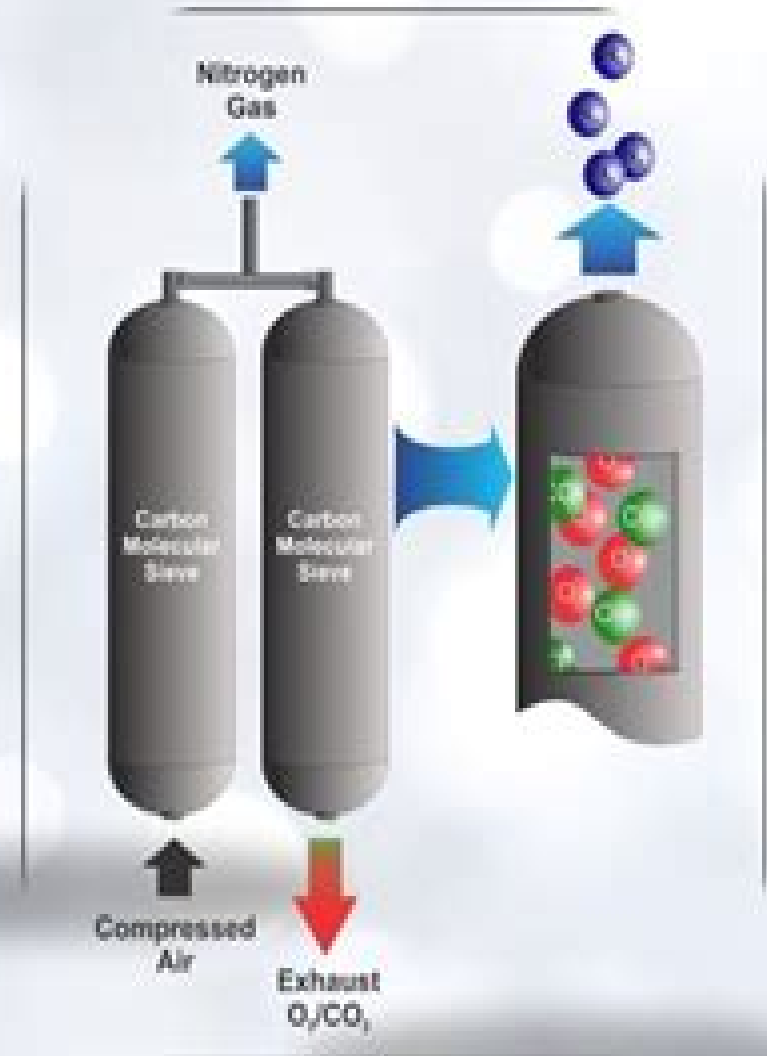


## The Working Principle of Pressure Swing Adsorption (PSA)

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**Sebastian Brünink**

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**Pressure Swing Adsorption** Douglas M. Ruthven, S. Farooq, Kent S. Knaebel, 1996-12-17 Pressure Swing Adsorption is the first book that provides a coherent and concise summary of the underlying science and technology of pressure swing adsorption PSA processes at a level understandable to the practising engineer PSA has achieved widespread commercial acceptance as the technology of choice for hydrogen purification air separation and small scale air driers However PSA has numerous other actual and potential uses such as the recovery of methane from landfill gas the production of carbon dioxide and other large scale applications Since the design and optimization of a PSA process requires a somewhat mathematical model two chapters of the book provide in depth information on equilibrium theory and dynamic numerical simulation However this mathematical material will also help the general reader develop an understanding of the principles and strengths and limitations of various approaches PSA engineers chemical engineers environmental chemists academicians and managers who must make informed decisions about purchasing costly PSA systems will find Pressure Swing Adsorption of particular value

**Modular Simulation of Pressure Swing Adsorption for Hydrogen Purification in Compact Units** Matthias Stegmaier, 2008

*Kinetically Controlled Pressure Swing Adsorption (PSA)* Guoliang Zhong, 2000

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Complementary Pressure Swing Adsorption James Curtis Toler, Georgia Tech Research Institute (1984- ). Project no. A-3529-150, 1986

**Compact Rapid Pressure Swing Adsorption Processes - Impact of Novel Adsorbent Monoliths** Andreas Gorbach, 2006

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Numerical Simulation of Pressure Swing Adsorption Process [microform] Lin Lin, 1997

Pressure Changing Steps in Pressure Swing Adsorption Wai Nyin Ng, 1995

**Adsorption Equilibria and Performance of a Pressure Swing Adsorption Air Separation Unit** George Walter Miller, 1984

Current pressure swing adsorption PSA air separation units operating on short cycle times suffer a reduction in product oxygen concentration when subjected to lower ambient temperatures i e less than 10 C This work investigates this problem based on analysis of adsorption equilibria column breakthrough studies and actual PSA system data Pure and multicomponent data for nitrogen oxygen and air on molecular sieve 5A were collected at 24 40 and 70 C up to pressures of 4 3 atmospheres absolute Using a statistical thermodynamic model pure component data were adequately predicted over the entire temperature range 24 to 70 C The multicomponent data were predicted at 24 C by a statistical thermodynamic model and ideal adsorbed solution theory At the lower temperatures the gas mixture behaved nonideally

**Separation of Oxygen and Nitrogen by Pressure Swing**

**Adsorption Using 5A Molecular Sieves** Hans Ulrik Andreasson, 1982 Pressure swing adsorption P S A for the separation oxygen and nitrogen has gained increased attention as an alternative to cryogenic distillation Pure component isotherms for the adsorption of oxygen and nitrogen on 5A molecular sieves have been determined experimentally Binary adsorption equilibria for oxygen nitrogen mixtures on 5A molecular sieves have been predicted for various pressures Experimental data have been obtained on a periodic short cycle pressure swing adsorption unit separating oxygen nitrogen mixtures using 5A molecular sieves Characteristic curves have been obtained relating product purity and oxygen yield to feed flow rate pressure ratio revert ratio period time and pressurisation time A theoretical model has been developed for an idealised steady state pressure swing adsorption process using the concept of steady state theoretical plates **Oxygen from Air by Pressure Swing Adsorption** P. R. Nelson, 1993 *Simulation of the Pressure Swing Adsorption Process* Ronald K. King, 1991 Laboratory-Scale Pressure Swing Adsorption System John J. Mahle, Leonard C. Buettner, David K. Friday, Amanda B. Brady, EDGEWOOD RESEARCH DEVELOPMENT AND ENGINEERING CENTER ABERDEEN PROVING GROUND MD., 1993 The design of a laboratory scale pressure swing adsorption PSA system for air purification applications is described Specific attention is provided to bed design flow control and feed generation systems This apparatus is capable of automated in bed concentration pressure and temperature measurements using computer control Results are presented for some sample runs based on 150 SLPM of feed at three to four atmospheres of feed pressure Pressure profiles Pressure swing adsorption Experimental system In bed profiles Laboratory scale Concentration profiles **Pressure Swing Adsorption** Douglas Morris Ruthven, Shamsuzzaman Farooq, Kent S. Knaebel, 1994 *Pressure Swing and Thermal Swing Adsorption* Capaci, 2013 Pressure Swing Adsorption PSA tests were performed

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