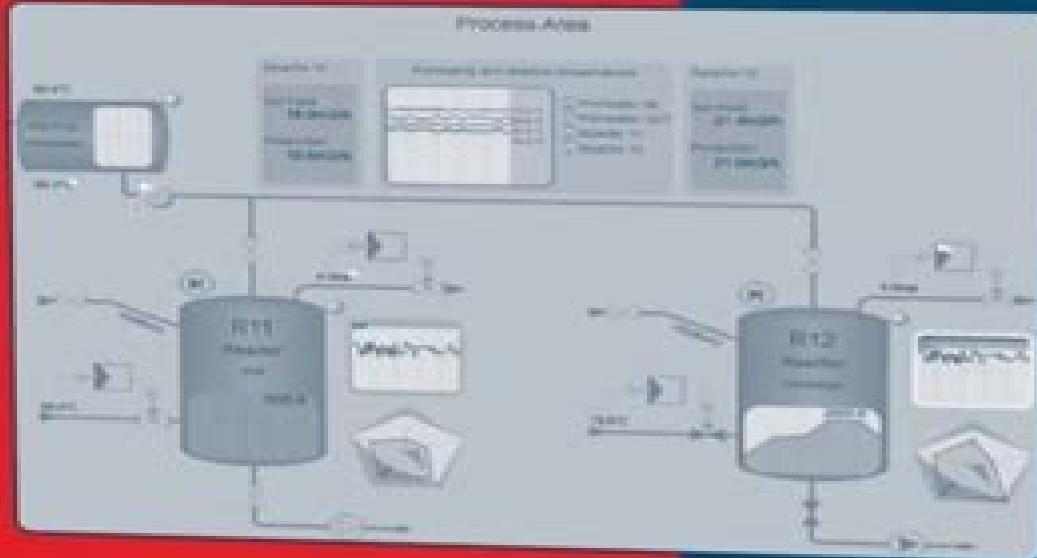


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Chemical Process Control George Stephanopoulos,1984 Continuous Process Dynamics, Stability, Control and Automation Kal Renganathan Sharma,2016

This is a modern first course on process control instruments process dynamics and stability MS Excel spreadsheets are used in order to obtain solutions to non linear equations when needed and closed form analytical solutions are obtained using Laplace transforms and other methods The solutions are presented in 210 figures and the book has 1319 equations With an industrial controls market size of about 150 billion dollars and a chemical process industry market size of three trillion dollars the practitioners can use this book to master techniques of P proportional PI Proportional Integral PD Proportional Derivative feedback control feedforward control hybrid control adaptive control internal model control ratio control filtered real proportional integral derivative control ANNs artificial neural networks SPC and statistical process control Control block diagrams are developed using MS Paint Flavor for what is a continuous process is given using 18 process flow diagrams Be it a feedback control of temperature in a mixing tank or a neural network design for a distillation column the details and the big picture are both given Pioneers who made this area possible include people such as Maxwell Galileo Sherwood Levenspiel Kalman Laplace Fermat Damkholer Newton Fourier Fick Michaelis Menten Monod Staudinger Ziegler Natta Flory Peclat Bode Nyquist Biot Bessel Bernoulli both father and son Euler Stokes Mach Reynolds

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introduces all of the applied fundamentals of process control from instrumentation to process dynamics PID loops and tuning to distillation multi loop and plant wide control In addition readers come away with a working knowledge of the three most popular dynamic simulation packages The text carefully balances theory and practice by offering readings and lecture materials along with hands on workshops that provide a virtual process on which to experiment and from which to learn modern real time control strategy development As well as a general updating of the book specific changes include A new section on boiler control in the chapter on common control loops A major rewrite of the chapters on distillation column control and multiple single loop control schemes The addition of new figures throughout the text Workshop instructions will be altered to suit the latest versions of HYSYS ASPEN and DYNSIM simulation software A new solutions manual for the workshop problems

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Process Dynamics and Control Brian Roffel,Ben Betlem,2007-01-02 Offering a different approach to other textbooks in the area this book is a comprehensive introduction to the subject divided in three broad parts The first part deals with building physical models the second part with developing empirical models and the final part discusses developing process control solutions Theory is discussed where needed to ensure students have a full understanding of key techniques that are used to solve a modeling problem Hallmark Features Includes worked out examples of processes where the theory learned early on in the text can be applied Uses MATLAB simulation examples of all processes and modeling techniques further information on MATLAB can be obtained from www.mathworks.com Includes supplementary website to include further references worked examples and figures from the book This book is structured and aimed at upper level undergraduate students within chemical engineering and other engineering disciplines looking for a comprehensive introduction to the subject It is also of use to practitioners of process control where the integrated approach of physical and empirical modeling is particularly valuable

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