



# HYSYS<sup>®</sup>: An Introduction to Chemical Engineering Simulation

For UTM Degree++ Program

Mohd. Kamaruddin Abd Hamid

# Hysys An Introduction To Chemical Engineering Simulation

**Weiguo Xie, Sam Toan, Richard Davis**



## **Hysys An Introduction To Chemical Engineering Simulation:**

**Aspen HYSYS: An Introduction to Chemical Engineering Simulation** Mohd. Kamaruddin Abd. Hamid, 2013 Aspen HYSYS An Introduction to Chemical Engineering Simulations is intended for students who are using Aspen HYSYS for the first time and have little or no experience in computer simulation It can be used as a textbook in freshmen chemical engineering courses or workshops where Aspen HYSYS is being taught The book can also serve as a reference in more advanced chemical engineering courses when Aspen HYSYS is used as a tool for simulation and solving problems It also can be used for self study of Aspen HYSYS by students and practicing engineers In addition the book can be a supplement or a secondary book in courses where Aspen HYSYS is used but the instructor does not have time to cover it extensively

**Chemical Process Simulations using Aspen Hysys** Khalid W. Hameed, 2025-07-16 An intuitive guide to using Aspen HYSYS for chemical petrochemical and petroleum industry process simulations including interactive process flow diagrams In Chemical Process Simulations using Aspen Hysys distinguished lecturer Dr Khalid W Hameed delivers an up to date and authoritative discussion of the simulation and design of chemical petrochemical and petroleum industry processes using Aspen HYSYS The book includes coverage of many chemical engineering topics including fluid flow reactors unit operation of heat and mass transfer oil refinery process and control systems Readers will also find highly interactive process flow diagrams for building and navigating through large simulations as well as A thorough introduction to the use of Aspen HYSYS for the chemical oil and petrochemical industries Skill development techniques for users of Aspen HYSYS and strategies for improving the accuracy of results Practical discussions of Dynamic State Simulation with explanations of how to install control systems for the process using flash separator gas processing and advanced process control such as ratio control cascade control and split range control Illustrative examples of Plant Wide Projects that demonstrate the ability of Aspen HYSYS to perform a full plant Perfect for research and development engineers in the fields of petrochemical chemical and petroleum engineering Chemical Process Simulations using Aspen HYSYS will also benefit researchers with an interest in the area

**Chemical Process Simulation and the Aspen HYSYS Software** Michael Edward Hanyak, Bucknell University Department of Chemical Engineering, 2012-07-28 The document Chemical Process Simulation and the Aspen HYSYS Software Version 7.3 is a self paced instructional manual that aids students in learning how to use a chemical process simulator and how a process simulator models material balances phase equilibria and energy balances for chemical process units The student learning is driven by the development of the material and energy requirements for a specific chemical process flowsheet This semester long problem based learning activity is intended to be a student based independent study with about two hour support provided once a week by a student teaching assistant to answer any questions Chapter 1 of this HYSYS manual provides an overview of the problem assignment to make styrene monomer from toluene and methanol Chapter 2 presents ten tutorials to introduce the student to the HYSYS simulation software The first six of these tutorials can be

completed in a two week period for the introductory chemical engineering course The other four are intended for the senior level design course Chapter 3 provides five assignments to develop the student s abilities and confidence to simulate individual process units using HYSYS These five assignments can be completed over a three week period Chapter 4 contains seven assignments to develop the styrene monomer flowsheet These seven assignments can be completed over a seven week period In Chapter 4 each member of a four member team begins with the process reactor unit for a specifically assigned temperature molar conversion and yield Subsequent assignments increase the complexity of the flowsheet by adding process units one by one until the complete flowsheet with recycle is simulated in HYSYS The team s objective is to determine the operating temperature for the reactor such that the net profit is maximized before considering federal taxes Finally eleven appendices provide mathematical explanations of how HYSYS does its calculations for various process units process stream stream tee stream mixer pump valve heater cooler chemical reactor two phase separator three phase separator component splitter and simple distillation This HYSYS manual can be used with most textbooks for the introductory course on chemical engineering like Elementary Principles of Chemical Processes Felder and Rousseau 2005 Basic Principles and Calculations in Chemical Engineering Himmelblau and Riggs 2004 or Introduction to Chemical Processes Principles Analysis Synthesis Murphy 2007 It can also be used as a refresher for chemical engineering seniors in their process engineering design course Because the HYSYS manuscript was compiled using Adobe Acrobat r it contains many web links Using a supplied web address and Acrobat Reader r students can electronically access the web links that appear in many of the chapters These web links access Aspen HYSYS r Acrobat PDF r Microsoft Word r and Microsoft Excel r files that appear in many of chapters Students can view but not copy or print the electronic version of the HYSYS manual

*Introduction to Chemical Engineering* Uche P. Nnaji, 2019-09-30 The field of chemical engineering is undergoing a global renaissance with new processes equipment and sources changing literally every day It is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science Introduction to Chemical Engineering offers a comprehensive overview of the concept principles and applications of chemical engineering It explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field The book serves as a conduit between college education and the real world chemical engineering practice It answers many questions students and young engineers often ask which include How is what I studied in the classroom being applied in the industrial setting What steps do I need to take to become a professional chemical engineer What are the career diversities in chemical engineering and the engineering knowledge required How is chemical engineering design done in real world What are the chemical engineering computer tools and their applications What are the prospects present and future challenges of chemical engineering And so on It also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career It is expected that this book will enhance students understanding and performance in the field and the

development of the profession worldwide Whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer s library

**Chemical Process Simulation and the Aspen HYSYS V8. 3 Software** Michael Edward Hanyak, 2013-11-28 The document Chemical Process Simulation and the Aspen HYSYS v8 3 Software is a self paced instructional manual that aids students in learning how to use a chemical process simulator and how a process simulator models material balances phase equilibria and energy balances for chemical process units The student learning is driven by the development of the material and energy requirements for a specific chemical process flowsheet This semester long problem based learning activity is intended to be a student based independent study with about two hour support provided once a week by a student teaching assistant to answer any questions Chapter 1 of this HYSYS manual provides an overview of the problem assignment to make styrene monomer from toluene and methanol Chapter 2 presents ten tutorials to introduce the student to the HYSYS simulation software The first six of these tutorials can be completed in a two week period for the introductory chemical engineering course The other four are intended for the senior level design course Chapter 3 provides five assignments to develop the student s abilities and confidence to simulate individual process units using HYSYS These five assignments can be completed over a three week period Chapter 4 contains seven assignments to develop the styrene monomer flowsheet These seven assignments can be completed over a seven week period In Chapter 4 each member of a four five or six member team begins with the process reactor unit for a specifically assigned temperature molar conversion and yield Subsequent assignments increase the complexity of the flowsheet by adding process units one by one until the complete flowsheet with recycle is simulated in HYSYS The team s objective is to determine the operating temperature for the reactor such that the net profit is maximized before considering federal taxes Finally eleven appendices provide mathematical explanations of how HYSYS does its calculations for various process units process stream stream tee stream mixer pump valve heater cooler chemical reactor two phase separator three phase separator component splitter and simple distillation This HYSYS manual can be used with most textbooks for the introductory course on chemical engineering like Elementary Principles of Chemical Processes Felder and Rousseau 2005 Basic Principles and Calculations in Chemical Engineering Himmelblau and Riggs 2004 or Introduction to Chemical Processes Principles Analysis Synthesis Murphy 2007 It can also be used as a refresher for chemical engineering seniors in their process engineering design course Because the HYSYS manuscript was compiled using Adobe Acrobat r it contains many web links Using a supplied web address and Acrobat Reader r students can electronically access the web links that appear in many of the chapters These web links access Aspen HYSYS r Acrobat PDF r Microsoft Word r and Microsoft Excel r files that appear in many of chapters Students can view but not copy or print the electronic version of the HYSYS manual

*An Introduction to Chemical Process Design* Bart Hallmark, 2021-10-21 This book derives from a course on chemical process design that I taught at the University of Cambridge UK between 2008 and 2018 and is intended to serve as a basic introduction to a number of disciplines within the

topic Given the immense breadth and depth of this subject the aim of this book is to introduce and illustrate certain key points and concepts and to provide a template workflow for certain procedures such as gaseous relief header design or distillation optimisation Reference is made to specialist design manuals for specific topics such that more information can be obtained by the reader where necessary The aim of this book is not to provide a definitive reference for all design scenarios but rather to act as an introductory guide The book was originally written for undergraduate students embarking on their design project but it is also intended to serve as a succinct reference guide to existing practitioners **Chemical**

**Engineering Process Simulation** Dominic Foo,2022-09-29 Chemical Engineering Process Simulation Second Edition guides users through chemical processes and unit operations using the main simulation software used in the industrial sector The book helps predict the characteristics of a process using mathematical models and computer aided process simulation tools as well as how to model and simulate process performance before detailed process design takes place Content coverage includes steady state and dynamic simulation process design control and optimization In addition readers will learn about the simulation of natural gas biochemical wastewater treatment and batch processes Provides an updated and expanded new edition that contains 60 70% new content Guides readers through chemical processes and unit operations using the primary simulation software used in the industrial sector Covers the fundamentals of process simulation theory and advanced applications Includes case studies of various difficulty levels for practice and for applying developed skills Features step by step guides to using UniSim Design SuperPro Designer Symmetry Aspen HYSYS and Aspen Plus for process simulation novices **Chemical Process Retrofitting and Revamping** Gade Pandu Rangaiah,2016-01-22 The proposed book will be divided into three parts The chapters in Part I provide an overview of certain aspect of process retrofitting The focus of Part II is on computational techniques for solving process retrofit problems Finally Part III addresses retrofit applications from diverse process industries Some chapters in the book are contributed by practitioners whereas others are from academia Hence the book includes both new developments from research and also practical considerations Many chapters include examples with realistic data All these feature make the book useful to industrial engineers researchers and students

Introduction to Software for Chemical Engineers Mariano Martín Martín,2025-03-24 The field of chemical engineering and its link to computer science is in constant evolution and engineers have an ever growing variety of tools at their disposal to tackle everyday problems Introduction to Software for Chemical Engineers Third Edition provides a quick guide to the use of various computer packages for chemical engineering applications It covers a range of software applications including Excel and general mathematical packages such as MATLAB MathCAD R and Python Coverage also extends to process simulators such as CHEMCAD HYSYS and Aspen equation based modeling languages such as gPROMS optimization software such as GAMS AIMS and Julia and specialized software like CFD or DEM codes The different packages are introduced and applied to solve typical problems in fluid mechanics heat and mass transfer mass and energy balances unit operations reactor

engineering and process and equipment design and control This new edition is updated throughout to reflect software updates and new packages It emphasizes the addition of SimaPro due to the importance of life cycle assessment as well as general statistics software SPSS and Minitab that readers can use to analyze lab data The book also includes new chapters on flowsheeting drawing process control and LOOP Pro as well as updates to include Pyomo as an optimization platform reflecting current trends The text offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems Written by leading experts this handbook is a must have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software Its user friendly approach to simulation and optimization as well as its example based presentation of the software makes it a perfect teaching tool for both undergraduate and graduate level readers

*Chemical Engineering Process Simulation*  
Nishanth G. Chemmangattuvalappil, Chien Hwa Chon, Denny Ng Kok Sum, Rafil Elyas, Cheng-Liang Chen, I Lung Chien, Hao-Yeh Lee, Rene D Elms, 2017-07-13

Chemical Engineering Process Simulation is ideal for students early career researchers and practitioners as it guides you through chemical processes and unit operations using the main simulation softwares that are used in the industrial sector This book will help you predict the characteristics of a process using mathematical models and computer aided process simulation tools as well as model and simulate process performance before detailed process design takes place Content coverage includes steady and dynamic simulations the similarities and differences between process simulators an introduction to operating units and convergence tips and tricks You will also learn about the use of simulation for risk studies to enhance process resilience fault finding in abnormal situations and for training operators to control the process in difficult situations This experienced author team combines industry knowledge with effective teaching methods to make an accessible and clear comprehensive guide to process simulation Ideal for students early career researchers and practitioners as it guides you through chemical processes and unit operations using the main simulation softwares that are used in the industrial sector Covers the fundamentals of process simulation theory and advanced applications Includes case studies of various difficulty levels to practice and apply the developed skills Features step by step guides to using UniSim Design PRO II ProMax Aspen HYSYS for process simulation novices Helps readers predict the characteristics of a process using mathematical models and computer aided process simulation tools

**Process Analysis and Simulation in Chemical Engineering** Iván Darío Gil Chaves, Javier Ricardo Guevara López, José Luis García Zapata, Alexander Leguizamón Robayo, Gerardo Rodríguez Niño, 2015-11-27

This book offers a comprehensive coverage of process simulation and flowsheeting useful for undergraduate students of Chemical Engineering and Process Engineering as theoretical and practical support in Process Design Process Simulation Process Engineering Plant Design and Process Control courses The main concepts related to process simulation and application tools are presented and discussed in the framework of typical problems found in engineering design The topics presented in the chapters are organized in an

inductive way starting from the more simplistic simulations up to some complex problems      Introduction to Software for Chemical Engineers, Second Edition Mariano Martín Martín, 2019-06-06 The field of Chemical Engineering and its link to computer science is in constant evolution and new engineers have a variety of tools at their disposal to tackle their everyday problems Introduction to Software for Chemical Engineers Second Edition provides a quick guide to the use of various computer packages for chemical engineering applications It covers a range of software applications from Excel and general mathematical packages such as MATLAB and MathCAD to process simulators CHEMCAD and ASPEN equation based modeling languages gProms optimization software such as GAMS and AIMS and specialized software like CFD or DEM codes The different packages are introduced and applied to solve typical problems in fluid mechanics heat and mass transfer mass and energy balances unit operations reactor engineering process and equipment design and control This new edition offers a wider view of packages including open source software such as R Python and Julia It also includes complete examples in ASPEN Plus adds ANSYS Fluent to CFD codes Lingo to the optimization packages and discusses Engineering Equation Solver It offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems Written by leading experts this book is a must have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software Its user friendly approach to simulation and optimization as well as its example based presentation of the software makes it a perfect teaching tool for both undergraduate and master levels      **In silico Modeling and Experimental Validation for Improving Methanogenesis from CO<sub>2</sub> via *M. maripaludis***

Nishu Goyal, 2016-09-28 This thesis explores the ability of *M. maripaludis* to capture and convert CO<sub>2</sub> to methane in the presence of free nitrogen and offers a consolidated review of the metabolic processes and applications of *M. maripaludis* Further it develops validates and analyzes the first genome scale metabolic model iMM518 of *M. maripaludis* Readers will discover for the first time the impact of nitrogen fixation on methane production As such the thesis will be of interest to researchers working on *M. maripaludis* biofuels and bioenergy systems biology modeling and its experimental validation estimation of maintenance energy parameters nitrogen fixing microbes and bioremediation

*Chemical Engineering Computation with MATLAB®* Yeong Koo Yeo, 2017-08-01 Most problems encountered in chemical engineering are sophisticated and interdisciplinary Thus it is important for today's engineering students researchers and professionals to be proficient in the use of software tools for problem solving MATLAB is one such tool that is distinguished by the ability to perform calculations in vector matrix form a large library of built in functions strong structural language and a rich set of graphical visualization tools Furthermore MATLAB integrates computations visualization and programming in an intuitive user friendly environment Chemical Engineering Computation with MATLAB presents basic to advanced levels of problem solving techniques using MATLAB as the computation environment The book provides examples and problems extracted from core chemical engineering subject areas and presents a basic instruction in the use of MATLAB for problem

solving It provides many examples and exercises and extensive problem solving instruction and solutions for various problems Solutions are developed using fundamental principles to construct mathematical models and an equation oriented approach is used to generate numerical results A wealth of examples demonstrate the implementation of various problem solving approaches and methodologies for problem formulation problem solving analysis and presentation as well as visualization and documentation of results This book also provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression parameter estimation in differential systems two point boundary value problems and partial differential equations and optimization

Computer Methods in Chemical Engineering Nayef Ghasem, 2021-11-23 While various software packages have become essential for performing unit operations and other kinds of processes in chemical engineering the fundamental theory and methods of calculation must also be understood to effectively test the validity of these packages and verify the results Computer Methods in Chemical Engineering Second Edition presents the most used simulation software along with the theory involved It covers chemical engineering thermodynamics fluid mechanics material and energy balances mass transfer operations reactor design and computer applications in chemical engineering The highly anticipated Second Edition is thoroughly updated to reflect the latest updates in the featured software and has added a focus on real reactors introduces AVEVA Process Simulation software and includes new and updated appendixes Through this book students will learn the following What chemical engineers do The functions and theoretical background of basic chemical engineering unit operations How to simulate chemical processes using software packages How to size chemical process units manually and with software How to fit experimental data How to solve linear and nonlinear algebraic equations as well as ordinary differential equations Along with exercises and references each chapter contains a theoretical description of process units followed by numerous examples that are solved step by step via hand calculation and computer simulation using Hysys UniSim PRO II Aspen Plus and SuperPro Designer Adhering to the Accreditation Board for Engineering and Technology ABET criteria the book gives chemical engineering students and professionals the tools to solve real problems involving thermodynamics and fluid phase equilibria fluid flow material and energy balances heat exchangers reactor design distillation absorption and liquid extraction This new edition includes many examples simulated by recent software packages In addition fluid package information is introduced in correlation to the numerical problems in book An updated solutions manual and PowerPoint slides are also provided in addition to new video guides and UniSim program files

**Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications** Juma Haydary, 2019-01-23 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software A comprehensive and practical resource the text uses both Aspen Plus and Aspen

Hysys simulation software The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors separators and heat exchangers The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used In addition to aid in comprehension solutions to examples of real problems are included The final section covers plant design and simulation of processes using nonconventional components This important resource Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of chemical process and design with real world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids oil blends polymers and electrolytes Presents examples that are solved using a new version of Aspen software ASPEN One 9 Written for students and academics in the field of process design

Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation using proven software Chemical Engineering Analysis and Optimization Using MATLAB Weiguo Xie, Sam Toan, Richard Davis, 2024-12-16 Tackle challenging optimization problems with MATLAB software Optimization techniques measure the minimum or maximum value of a given function depending on circumstances constraints and key factors Engineering processes pertaining to design or manufacture involve optimization techniques at every stage designed to minimize resource expenditure and maximize outcomes Optimization problems can be challenging and computationally intensive but the increasingly widely used MATLAB platform offers numerous tools enabling engineers to tackle these essential elements of process and industrial design Chemical Engineering Analysis and Optimization Using MATLAB introduces cutting edge highly in demand skills in computer aided design and optimization With a focus on chemical engineering analysis the book uses the MATLAB platform to develop reader skills in programming modeling and more It provides an overview of some of the most essential tools in modern engineering design Chemical Engineering Analysis and Optimization Using MATLAB readers will also find Case studies for developing specific skills in MATLAB and beyond Examples of code both within the text and on a companion website End of chapter problems with an accompanying solutions manual for instructors This textbook is ideal for advanced undergraduate and graduate students in chemical engineering and related disciplines as well as professionals with backgrounds in engineering design 27th European Symposium on Computer Aided Process Engineering ,2017-09-21 27th European Symposium on Computer Aided Process Engineering Volume 40 contains the papers presented at the 27th European Society of Computer Aided Process Engineering ESCAPE event held in Barcelona October 1 5 2017 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 27th European Society of Computer Aided Process

Engineering ESCAPE event      *Funktionalitätenverteilung und Produktbereiche für die Prozesssynthese integrierter reaktiver Trennverfahren* Markus Tylko, 2008-10-14 Durch Integration einer chemischen Umsetzung in eine verfahrenstechnische Grundoperation können Synergieeffekte entstehen die den benötigten apparativen und betrieblichen Aufwand eines Produktionsverfahrens signifikant reduzieren Die Realisierung derartiger Integrationen wird häufig durch das unzureichend tiefe Prozessverständnis gerade in Bezug auf spezielle räumliche Anordnungen der funktionellen Einheiten gehemmt Ziel der vorliegenden Arbeit ist die Entwicklung einer vom betrachteten Phasensystem unabhängigen systematischen Prozesssynthesestrategie für integrierte reaktive Trennverfahren Die integrierte Einheit wird dabei als mehrphasiger Prozess mit mindestens einer reaktiven Phase und einer Transportphase verstanden Der spezielle Fokus liegt auf der räumlichen Verteilung der vier Basisfunktionalitäten Reaktion Trennung Reaktivtrennung und Mischung sowie auf der Behandlung thermodynamischer Nichtidealitäten Hierzu wurden neben umfangreichen Literaturstudien drei sich stark unterscheidende integrierte reaktive Trennverfahren untersucht Die simulationsbasierten Studien zu Lage und Interpretation von Produktbereichen der reaktiven Extraktion dienten in erster Linie dazu die Datenbasis auf diesem Gebiet zu erweitern und in Form heuristischer Regeln für die Prozesssynthese nutzbar zu machen Die beiden anderen integrierten reaktiven Trennverfahren die lineare reaktive Chromatographie und die reaktive Rektifikation wurden mittels rigoröser Simulation und Optimierung untersucht und miteinander verglichen Dabei ließen sich die wesentlichen Unterschiede beider Verfahren darauf zurückführen dass bei der reaktiven Chromatographie beide Phasen unabhängig vom reaktiven Stoffsystem sind bei der reaktiven Rektifikation hingegen genau aus diesem Stoffsystem gebildet werden Dieses Wissen gekoppelt mit den erarbeiteten Gemeinsamkeiten beider Prozesse bezüglich Parameterabhängigkeit und räumlicher Funktionalitätenverteilung ermöglichten die Entwicklung einer generischen Prozesssynthesestrategie für integrierte reaktive Trennverfahren Diese Strategie betrachtet zunächst allein die reaktive Phase danach die gesamte integrierte Einheit und deren Produktbereiche Schließlich werden Empfehlungen zur räumlichen Verteilung von Funktionalitäten gegeben welche für weitere Parameteroptimierung genutzt werden können Die Allgemeingültigkeit der entwickelten Prozesssynthesestrategie wurde an drei realen Beispielen demonstriert und durch die von der Deutschen Forschungsgemeinschaft geförderten Forschergruppe Integrierte Reaktionen und Trennoperationen im Fachbereich Bio und Chemieingenieurwesen an der Universität Dortmund experimentell bestätigt

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web a photograph dating from 1899 shows camille claudel then aged 45 in her studio wrapped in a long dark coat standing opposite perseus and the gorgon which she had sculpted that year the work reveals claudel s sources and influences donatello cellini greco roman mythology and the passion she was driven by the gorgon s severed

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web aug 19 2023 the last original sculpture camille claudel created was made in plaster in 1905 and cast in bronze in 1913 it was a bust of her brother paul claudel at 37 years of age following the death of her father in 1913 she was committed by her family and would spend the rest of her life in two mental asylums i have fallen into an abyss she

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web jan 8 2021 in fact it is far less likely that you ve heard of camille claudel a female french sculptor who worked very closely with rodin for a portion of her career during their time of association claudel was rodin s student assistant muse and

lover

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web camille claudel is a 1988 french biographical drama film about the life of 19th century sculptor camille claudel the film was based on the book by reine marie paris granddaughter of camille s brother the poet and diplomat paul claudel it was directed by bruno nuytten co produced by isabelle adjani and starred her and gérard

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web camille claudel was born in fère en tardenois aisne 6 in northern france the first child of a family of farmers and gentry her father louis prosper claudel dealt in mortgages and bank transactions her mother the former louise athanaïse cécile cerveaux came from a champagnefamily of catholicfarmers and priests

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web the rodin museum devote a major retrospective of camille claudel s work this exhibition will consist of her most important works with over 80 sculptures in marble terracotta plaster onyx and bronze as well as about ten engravings and drawings from public and private collections

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