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Production and Fertilizer Use of Urea Urea Production Technology Environmental Impact of Ammonia and Urea Production Units Granulated Urea Production from Natural Gas - Cost Analysis - Urea E42A Green Urea Granulated Urea Production from Natural Gas - Cost Analysis - Urea E41A Prilled Urea Production from Natural Gas - Cost Analysis - Urea E31A Production of Urea-based Fertilizers with Pipe-cross Reactor Technology-TVA Experience Solid Urea from Russia and Ukraine Urea Granulated Urea from Ammonia via CO2 Stripping Process - Cost Analysis - Urea E22A Ammonia Volatilization from Urea Fertilizers Prilled Urea from Ammonia via Self-Stripping Process - Cost Analysis - Urea E11A Granulated Urea from Ammonia via Self-Stripping Process - Cost Analysis - Urea E21A Prilled Urea from Ammonia via CO2 Stripping Process - Cost Analysis - Urea E12A Urea Technology Urea Phosphate from Wet-process Phosphoric Acid and Urea Improving Efficiency of Urea Fertilizers by Inhibition of Soil Urease Activity Nitrogen in ... Animal Manures and Urea as Nitrogen Sources for Corn Production in Québec Fertilizer Manual Urea from the German Democratic Republic, Romania, and the Union of Soviet Socialist Republics Technology and Economics of Complex Fertilizer Production Fertilizers Manufacturing Handbook (Ammonium Sulfate, Diammonium Phosphate (DAP), Urea - Ammonium Nitrate, Neem Coated Urea, N.P.K. Complex Fertilizers, Single Superphosphate (SSP), Triple Superphosphate, Zinc Sulfate Monohydrate, Magnesium Sulfate with Manufacturing Process, Machinery Equipment Details & Factory Layout) Is Muscular Motion the Cause of the Production of Urea? Urea from the German Democratic Republic, Romania, and the Union of the Soviet Socialist Republics Solid Urea from Russia and Ukraine World Fertilizer Market Review and Outlook Novel Perspectives of Stem Cell Manufacturing and Therapies Canadian Ammonia Producers Minerals Yearbook Urea as a Protein Supplement Green Urea Brenner and Rector's The Kidney E-Book People's Republic of China, Chemical Fertilizer Supplies, 1949-74 Energy Resources and Systems Fetal Physiology and Medicine Congenital Disorders of the Urea Cycle and Ammonia Detoxication Prilled Urea from Ammonia via Self-Stripping Process - Cost Analysis - Urea E11A A Competitive Assessment of the U.S. Nitrogen Fertilizer Industry

**Production and Fertilizer Use of Urea** 1943 this report presents a cost analysis of urea production from natural gas via two integrated processes conversion of natural gas to ammonia followed by urea synthesis from the ammonia generated the ammonia synthesis portrayed is based on a new concept reported in the literature while the urea synthesis is similar to the mature stamcarbon s carbon dioxide stripping technology in the ammonia synthesis examined oxygen carrier particles are circulated within a chemical looping comprising three reactors respectively fed by steam natural gas and steam the outlet from the looping reactors is passed through compression and water separation steps to generate pure streams of nitrogen hydrogen and carbon dioxide nitrogen and hydrogen are reacted to generate ammonia further reacted with carbon dioxide to produce urea urea granules are obtained as final product this report was developed based essentially on the following reference s keywords carbon dioxide stripping fertilizers stamcarbon dsm urea granules chemical looping

**Urea Production Technology** 2002 this book presents a game changing technology of lower energy intensive urea production of urea which is used as fertilizer the technology from a resource to a knowledge intensive based industry investigates a new synthesis approach employing electromagnetic induction and nano catalyst at lower energy consumption this clean and green method for a sustainable future might change the landscape of future chemical processes it is made possible due to the enhancement in nanotechnology where quantum mechanical understanding is called into play new reactor designs are elaborated on and discussed explicitly hematite and nickel oxide nanocatalysts are proposed for the green urea synthesis process in the presence of static and oscillating magnetic fields strategies to increase single to triplet conversion rate are given for better understanding of the improved urea rate the focus is deliberately on scrutinizing the greenhouse gas effect on the urea yield in this case co2 flow rate coating techniques for slow release strategies are provided to reduce the volatilization of ammonia and leaching effect hence offering a complete solution of green technology agriculture 4 0 that creates the new patterns and precision monitoring of crop rotation and livestock utilization will be able to pave the way for better crop yield development of advanced technology in agriculture is important for the implementation of agriculture 4 0 and currently an inevitable trend of the socioeconomic development in the context of broader international integration for the sustainable future the author would like to acknowledge ministry of higher education mohe for the grant worth rm 12 million to accomplish green and economical urea project and to have full understanding on green technology in urea this book is a collaborative effort by her colleagues ku zilati khanif shahrina zainovia azizah zakaria and who have carried out the research over the past five years which started in 2011 their unconditional commitment had brought us together and we completed the project with success i wish to also thank dr menaka ganeson and all my phd students dr saima dr bilal mr zia and mr irfan for their commitment to assist me to complete the book last but not least thank you very much to professor mike payne cambridge university and professor koziol cranfield university for the comments

**Environmental Impact of Ammonia and Urea Production Units** 1992 this report presents a cost analysis of urea production from natural gas via two integrated processes conversion of natural gas to ammonia followed by urea synthesis from the ammonia generated the ammonia process examined is similar to kbr purifier technology and urea synthesis is similar to saipem s formerly snamprogetti self stripping process in the integrated production portrayed the ammonia formed is reacted with carbon dioxide recovered from the ammonia synthesis to form ammonium carbamate intermediate further converted to urea the non converted carbamate is stripped from the urea solution by excess ammonia and decomposed back to ammonia and carbon dioxide which are recycled after concentration and granulation steps urea granules are obtained as final product this report was developed based essentially on the following reference s 1 ammonia kirk othmer encyclopedia of chemical technology 5th edition 2 urea ullmann s encyclopedia of industrial chemistry 2010 keywords kbr nh3 stripping self stripping fertilizers snamprogetti saipem urea granules

*Granulated Urea Production from Natural Gas - Cost Analysis - Urea E42A* 2019-09-17 this report presents a cost analysis of urea production from natural gas via two integrated processes conversion of natural gas to ammonia followed by urea synthesis from the ammonia generated the ammonia process examined is similar to kbr purifier technology and urea synthesis is similar to saipem s formerly snamprogetti self stripping process in the integrated production portrayed the ammonia formed is reacted with carbon dioxide recovered from the ammonia synthesis to form ammonium carbamate intermediate further converted to urea the non converted carbamate is stripped from the urea solution by excess ammonia and decomposed back to ammonia and carbon dioxide which are recycled after concentration and prilling steps urea prills are obtained as final product this report was developed based essentially on the following reference s 1 ammonia kirk othmer encyclopedia of chemical technology 5th edition 2 urea ullmann s encyclopedia of industrial chemistry 2010 keywords kbr nh3 stripping self stripping fertilizers snamprogetti saipem urea prills

*Green Urea* 2018 urea serves an important role in the metabolism of nitrogen containing compounds by animals and is the main nitrogen containing substance in the urine of mammals it is solid colourless and odourless and highly soluble in water urea is widely used in fertilisers as a convenient source of nitrogen and also an important raw material for the chemical industry in this book the authors discuss the synthesis properties and uses of urea topics included in this compilation are the production of granular urea as nitrogenous fertiliser urea and urea transporter physiology urea transport in fungi and plants urea used as the neutralising agent for homogenous precipitation the effect of urea on polymer films natural fibres wood and jute plastic composites pharmacological recognition of urea derivatives in brain disorders non bonding properties of urea valproyl urea and urea as an effective therapeutic option syndrome of inappropriate antidiuretic hormone secretion siadh

**Granulated Urea Production from Natural Gas - Cost Analysis - Urea E41A** 2019-09-17 this report presents a cost analysis of urea production from ammonia and carbon dioxide the process examined is similar to stamcarbon s carbon dioxide stripping process in this process ammonia and carbon dioxide are reacted to form ammonium carbamate intermediate which is converted to urea the non converted carbamate is stripped from the urea solution by carbon dioxide and decomposed back to ammonia and carbon dioxide which are recycled to the urea synthesis after concentration and granulation steps urea granules are obtained as final product this report was developed based essentially on the following reference s 1 urea ullmann s encyclopedia of industrial chemistry 2010 2 us patent 9505712 issued to stamcarbon in 2016 keywords carbon dioxide stripping fertilizers stamcarbon dsm urea granules

**Prilled Urea Production from Natural Gas - Cost Analysis - Urea E31A** 2019-09-17 symposiumverslagen over de omvang van ureum als meststof op de wereldmarkt bodem milieu en beheersfactoren die de ammoniakvervluchtiging beïnvloeden factoren die de ureumhydrolyse beïnvloeden de chemische balans m b t de ammoniakvervluchtiging modelmatige weergave voor het voorspellen van de vervluchtiging vergelijking van methoden voor ammoniakmetingen ontwikkelingen omtrent de toepassing van remstoffen bij de urease vorming mechanismen bij de urease vorming ammoniakvervluchtiging van ureumfosfaatmeststoffen

**Production of Urea-based Fertilizers with Pipe-cross Reactor Technology-TVA Experience** 1990 this report presents a cost analysis of urea production from ammonia and carbon dioxide the process examined is similar to saipem s formerly snamprogetti self stripping process in this process ammonia and carbon dioxide are reacted to form ammonium carbamate intermediate which is converted to urea the non converted carbamate is

stripped from the urea solution by excess ammonia and decomposed back to ammonia and carbon dioxide which are recycled to the urea synthesis after concentration and prilling steps urea prills are obtained as final product this report was developed based essentially on the following references 1 urea ullmann's encyclopedia of industrial chemistry 2010 2 urea kirk othmer encyclopedia of chemical technology 5th edition keywords nh<sub>3</sub> stripping self stripping fertilizers snamprogetti saipem urea prills

*Solid Urea from Russia and Ukraine* 2005 this report presents a cost analysis of urea production from ammonia and carbon dioxide the process examined is similar to saipem's formerly snamprogetti self stripping process in this process ammonia and carbon dioxide are reacted to form ammonium carbamate intermediate which is converted to urea the non converted carbamate is stripped from the urea solution by excess ammonia and decomposed back to ammonia and carbon dioxide which are recycled to the urea synthesis after concentration and granulation steps urea granules are obtained as final product this report was developed based essentially on the following references 1 urea ullmann's encyclopedia of industrial chemistry 2010 2 urea kirk othmer encyclopedia of chemical technology 5th edition keywords nh<sub>3</sub> stripping self stripping fertilizers snamprogetti saipem urea granules

*Urea* 2012 this report presents a cost analysis of urea production from ammonia and carbon dioxide the process examined is similar to stamicarbon's carbon dioxide stripping process in this process ammonia and carbon dioxide are reacted to form ammonium carbamate intermediate which is converted to urea the non converted carbamate is stripped from the urea solution by carbon dioxide and decomposed back to ammonia and carbon dioxide which are recycled to the urea synthesis after concentration and prilling steps urea prills are obtained as final product this report was developed based essentially on the following references 1 urea ullmann's encyclopedia of industrial chemistry 2010 2 us patent 9505712 issued to stamicarbon in 2016 keywords carbon dioxide stripping fertilizers stamicarbon dsm urea prills

**Granulated Urea from Ammonia via CO<sub>2</sub> Stripping Process - Cost Analysis - Urea E22A** 2019-09-17 the purpose of our present work is to review the fundamental studies on inhibition of soil urease activity and the applied studies on improving efficiency of urea fertilizers by inhibition of soil urease activity the general literature on these topics covers 65 years and the patent literature comprises a period of nearly 40 years studies related to inhibition of soil urease activity were performed in a great number of countries well representing all the continents full texts of the papers describing these studies were published in one of 18 languages the literature data reviewed are structured into 10 chapters 81 subchapters and 224 sections the bibliographical list consists of 830 papers cited in alphabetical order argentina armenia australia austria belgium belorussia brazil bulgaria canada china costa rica cuba czech republic egypt estonia france georgia gruzia germany hungary india iraq ireland israel italy japan kazakhstan lithuania malaysia moldova netherlands new zealand pakistan philippines poland romania russia saudi arabia slovakia south africa south korea spain sri lanka sudan sweden thailand turkey ukraine united kingdom united states of america uzbekistan

**Ammonia Volatilization from Urea Fertilizers** 1988 this fertilizer manual was prepared by the international fertilizer development center ifdc as a joint project with the united nations industrial development organization unido it is designed to replace the un fertilizer manual published in 1967 and intended to be a reference source on fertilizer production technology and economics and fertilizer industry planning for developing countries the aim of the new manual is to describe in clear simple language all major fertilizer processes their requirements advantages and disadvantages and to show illustrative examples of economic evaluations the manual is organized in five parts part i deals with the history of fertilizers world outlook the role of fertilizers in agriculture and raw materials and includes a glossary of fertilizer related terms part ii covers the production and transportation of ammonia and all important nitrogen fertilizers liquids and solids part iii deals with the characteristics of phosphate rock production of sulfuric and phosphoric acid and all important phosphate fertilizers including nitrophosphates and ammonium phosphates part iv deals with potash fertilizers ore mining and refining and chemical manufacture compound fertilizers secondary and micronutrients controlled release fertilizers and physical properties of fertilizers part v includes chapters on planning a fertilizer industry pollution control the economics of production of major fertilizer products and intermediates and problems facing the world fertilizer industry

*Prilled Urea from Ammonia via Self-Stripping Process - Cost Analysis - Urea E11A* 2017-06-01 india's economy is heavily reliant on agriculture one of the greatest contributors to the gross domestic product is agriculture along with forestry fishing and other related industries gdp it goes without saying that the fertilizer industry is one that the indian economy cannot do without given how significant the agricultural sector is the success of the agricultural sector in india is largely dependent on the fertilizer industry the benchmark that the food industry in india has set is mainly due to the many technically competent fertilizer producing companies in the country the combined output of nitrogenous n and phosphatic p chemical fertilizers has increased from a modest level fertilizer market size will grow at a cagr of 2.6 fertilizers have played a key role in the success of india's green revolution and subsequent self reliance in food grain production the increase in fertilizer consumption has contributed significantly to sustainable production of food grains in the country the npk fertilizers market feed grade is estimated at a cagr of 4.1 these feed grade fertilizers help animals attain faster growth and increase their weight by providing added nutrition to their meals the global diammonium hydrogen phosphate dap driven by the product's rising usage in fertilizers to increase the crop yield the compound has a high nutrient content which is required for crop nurture the global single superphosphate ssp market is expected to post a cagr of close to 3 key factor driving the growth of the global single superphosphate ssp market is the increasing demand for phosphate fertilizers triple superphosphate market is growing at a cagr of 5.5 triple superphosphate typically contains 44-46% of diphosphorus pentoxide p<sub>2</sub>o<sub>5</sub> and are produced by reacting phosphoric acid with phosphate rocks the zinc sulfate market is expected to witness market growth at a rate of 7.50 the global nitrogenous fertilizer market size growth rate cagr the growth is attributed to the increasing popularity of agriculture on a commercial level across the world the global potash fertilizer market growth rate cagr of 4.66 the global ammonium phosphate market is expected to grow at a cagr of 3.56 mainly due to robust demands from animal feed and fertilizers industries the market has witnessed a significant boost from the enabling policy framework regarding yield enhancement of agri produce successful business ideas in fertilizers manufacturing is profitable and very viable thus it is a good idea to venture into it by starting your own business read this book on for more information about fertilizers industry in detail it will help you understand how to get started with your own fertilizers manufacturing business fertilizers manufacturing is a great way to make money because of its high demand in today's market place the book contains detailed information about fertilizers manufacturing in which all aspects are covered the book is of immense use to professionals in fertilizers manufacturing handbook for quick revision as well as in day to day life where people would like to know about fertilizers this book also serves as an excellent guide for those who want to venture into fertilizers manufacturing industry or have been associated with it a complete guide to the fertilizers manufacturing ammonium sulfate diammonium phosphate dap urea ammonium nitrate neem coated urea n p k complex fertilizers single superphosphate ssp triple superphosphate zinc sulfate monohydrate magnesium sulfate it's a veritable feast of how to information from concept through equipment acquisition

**Granulated Urea from Ammonia via Self-Stripping Process - Cost Analysis - Urea E21A** 2019-09-17 in the 1950s nobel prize winner dr e donnall thomas was the first to successfully transplant hematopoietic stem cells since then studies on stem cells have evolved and expanded worldwide there are more than 650 000 scientific publications on stem cells and more than 8000 stem cell clinical trials this book summarizes types of stem cells

key studies ongoing trials and future perspectives it also includes ethical formal and legal aspects to give the reader a comprehensive view of the field

**Prilled Urea from Ammonia via CO<sub>2</sub> Stripping Process - Cost Analysis - Urea E12A** 2017-06-01 urea as a protein supplement presents the significant advances that have been made in ruminant nutrition this book examines the role of the rumen flora and fauna as synthesizers of protein from non protein nitrogen sources such as ammonium compounds and urea organized into four parts encompassing 23 chapters this book starts with an overview of the use of urea and other non protein nitrogen sources in ruminant nutrition this text then explores the various methods that may be used for the preparation of urea which involves the dehydration of ammonium carbamate produced by the reaction of carbon dioxide and ammonia at high pressure and temperature other chapters consider the ways in which urea could be utilized to increase protein supplies the final chapter deals with the hydrolysis of urea by urease to ammonia and carbon dioxide which has been used as a method for determining urea for many years agricultural scientists and farmers will find this book useful

**Urea Technology** 2009 this book presents a game changing technology of lower energy intensive urea production of urea which is used as fertilizer the technology from a resource to a knowledge intensive based industry investigates a new synthesis approach employing electromagnetic induction and nano catalyst at lower energy consumption this clean and green method for a sustainable future might change the landscape of future chemical processes it is made possible due to the enhancement in nanotechnology where quantum mechanical understanding is called into play new reactor designs are elaborated on and discussed explicitly hematite and nickel oxide nanocatalysts are proposed for the green urea synthesis process in the presence of static and oscillating magnetic fields strategies to increase single to triplet conversion rate are given for better understanding of the improved urea rate the focus is deliberately on scrutinizing the greenhouse gas effect on the urea yield in this case co<sub>2</sub> flow rate coating techniques for slow release strategies are provided to reduce the volatilization of ammonia and leaching effect hence offering a complete solution of green technology agriculture 4.0 that creates the new patterns and precision monitoring of crop rotation and livestock utilization will be able to pave the way for better crop yield development of advanced technology in agriculture is important for the implementation of agriculture 4.0 and currently an inevitable trend of the socioeconomic development in the context of broader international integration for the sustainable future the author would like to acknowledge ministry of higher education mohe for the grant worth rm 12 million to accomplish green and economical urea project and to have full understanding on green technology in urea this book is a collaborative effort by her colleagues ku zilati khanif shahrina zainovia azizah zakaria and who have carried out the research over the past five years which started in 2011 their unconditional commitment had brought us together and we completed the project with success i wish to also thank dr menaka ganeson and all my phd students dr saima dr bilal mr zia and mr irfan for their commitment to assist me to complete the book last but not least thank you very much to professor mike payne cambridge university and professor koziol cranfield university for the comments

*Urea Phosphate from Wet-process Phosphoric Acid and Urea* 1975 overcome the toughest clinical challenges in nephrology with brenner rector s the kidney the most well known nephrology resource in the world a diverse team of more than 200 international contributors brings you the latest knowledge and best practices on every front in nephrology worldwide from basic science and pathophysiology to clinical best practices brenner rector s the kidney is your go to resource for any stage of your career review of the basic science that underpins clinical nephrology comprehensive selection of the most important bibliographical sources in nephrology and board review style questions help you prepare for certification or recertification coverage of kidney health and disease from pre conception through fetal and infant health childhood adulthood and into old age expanded sections and chapter on global perspective and ethical considerations uniform terminology and nomenclature in line with emerging consensus in world kidney community more than 700 full color high quality photographs as well as carefully chosen figures algorithms and tables to illustrate essential concepts nuances of clinical presentation and technique and decision making provide a visual grasp and better understanding of critical information internationally diverse trusted guidance and perspectives from a team of well respected global contributors an editorial team headed by dr skorecki and handpicked by dr brenner ensures the ongoing adherence to previous standards of excellence all chapters have been extensively updated or entirely rewritten by authorities in their respective fields the latest clinical information including recent clinical trials genetic causes of kidney disease cardiovascular and renal risk prediction in chronic kidney disease new paradigms in fluid and electrolyte management and pediatric kidney disease keep you current with the rapid development of care and research worldwide

*Improving Efficiency of Urea Fertilizers by Inhibition of Soil Urease Activity* 2013-03-14 in the lifetimes of the authors the world and especially the united states have received three significant wake up calls on energy production and consumption the first of these occurred on october 15 1973 when the yom kippur war began with an attack by syria and egypt on israel the united states and many western countries supported israel because of the western support of israel several arab oil exporting nations imposed an oil embargo on the west these nations withheld five million barrels of oil per day other countries made up about one million barrels of oil per day but the net loss of four million barrels of oil production per day extended through march of 1974 this represented 7% of the free world's oil production excluding the ussr oil production in 1972 the price of crude oil was about 3.00 per barrel and by the end of 1974 the price of oil had risen by a factor of 4 to over 12.00 this resulted in one of the worst recessions in the post world war ii era as a result there was a movement in the united states to become energy independent at that time the united states imported about one third of its oil about five million barrels per day after the embargo was lifted the world chose to ignore the wake up call and went on with business as usual

*Nitrogen in ...* 1985 fetal physiology and medicine the basis of perinatology second revised edition documents many of the major advances in fetal medicine including developmental physiology pathology and therapy this book covers the most important areas of maternofetal medicine and presents different views of the critical problems of development the various components of fetal metabolism are highlighted to demonstrate how animal experimentation has given a clear view of the interrelationship of the mother placenta and fetus this text is comprised of 24 chapters the first of which describes the use of ultrasound in antenatal diagnosis of congenital structural anomalies this topic is followed by a discussion on sexual differentiation acquired immunity and endocrine changes as well as the physiology of breathing the control of the fetal cardiovascular system lung maturation fetal infections and the effects of hypoxia on the fetal brain this book also provides comprehensive reviews of fetal regulatory mechanisms such as the renin-angiotensin system water metabolism and fetal and placental hormone production other chapters focus on clinical applications such as antenatal fetal heart rate monitoring the technical aspects of fetal and uterine pressure measurements fetal acid base balance and the prevention of preterm delivery a section that explores the transition from intrauterine to extrauterine life concludes this book this source is of great potential value to all students and practitioners of reproductive medicine

**Animal Manures and Urea as Nitrogen Sources for Corn Production in Québec** 2013-04-17 this report presents a cost analysis of urea production from ammonia and carbon dioxide the process examined is similar to saipem's formerly snamprogetti self stripping process in this process ammonia and carbon dioxide are reacted to form ammonium carbamate intermediate which is converted to urea the non converted carbamate is stripped from the urea solution by excess ammonia and decomposed back to ammonia and carbon dioxide which are recycled to the urea synthesis after concentration and prilling steps urea prills are obtained as final product this report was developed based essentially on the following references 1 urea ullmann's encyclopedia of industrial chemistry 2010 2 urea kirk othmer encyclopedia of chemical technology 5th edition keywords nh<sub>3</sub> stripping self

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**Fertilizer Manual** 1987

**Urea from the German Democratic Republic, Romania, and the Union of Soviet Socialist Republics** 1969

**Technology and Economics of Complex Fertilizer Production** 2022-07-26

**Fertilizers Manufacturing Handbook (Ammonium Sulfate, Diammonium Phosphate (DAP), Urea - Ammonium Nitrate, Neem Coated Urea, N.P.K. Complex Fertilizers, Single Superphosphate (SSP), Triple Superphosphate, Zinc Sulfate Monohydrate, Magnesium Sulfate with Manufacturing Process, Machinery Equipment Details & Factory Layout)** 1856

Is Muscular Motion the Cause of the Production of Urea? 1986

**Urea from the German Democratic Republic, Romania, and the Union of the Soviet Socialist Republics** 1974

*Solid Urea from Russia and Ukraine* 2021-04-14

*World Fertilizer Market Review and Outlook* 2008

*Novel Perspectives of Stem Cell Manufacturing and Therapies* 2003

Canadian Ammonia Producers 2014-05-16

**Minerals Yearbook** 2018-01-16

Urea as a Protein Supplement 2015-10-25

**Green Urea** 1975

**Brenner and Rector's The Kidney E-Book** 2009-06-17

*People's Republic of China, Chemical Fertilizer Supplies, 1949-74* 2013-10-22

*Energy Resources and Systems* 1971

**Fetal Physiology and Medicine** 2019-09-17

Congenital Disorders of the Urea Cycle and Ammonia Detoxication 1986

**Prilled Urea from Ammonia via Self-Stripping Process - Cost Analysis - Urea E11A**

*A Competitive Assessment of the U.S. Nitrogen Fertilizer Industry*

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