

Optimization Of Coagulation Flocculation Process With

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OPTIMIZATION OF COAGULATION-FLOCCULATION PROCESS ...

Optimization of coagulation-flocculation process with aluminum sulfate based on response (...) 79 collection of tools in design or data analysis that enhance the exploration of a region of design variables in one ore more dimensions” [3] Building a mathematical model based upon RSM is ...

Analysis and optimization of coagulation and flocculation ...

Optimization of process parameters is vital for the effec-tiveness of coagulation process In the present study opti-mization of parameters like pH, dose of coagulant and mixing speed were studied using natural coagulants sago and chitin in comparison with alum Jar test apparatus was used to perform the coagulation The results showed that

Optimization of the coagulation-flocculation process for ...

Optimization of the coagulation-flocculation process for pulp mill wastewater treatment using a combination of uniform design and response surface methodology Jian-Ping Wanga,b, Yong-Zhen Chena, Yi Wangb, Shi-Jie Yuana, Han-Qing Yua,* aDepartment of Chemistry, University of Science and Technology of China, Hefei, 230026, China

Optimization of the coagulation/flocculation process for ...

Flocculation is the process directly following the coagulation and promotes contact between the colloidal particles to form agglomerates destabilized requiring flocculants such as polyacrylamides [13] , anionic polyacrylamides, cationic, polyacrylic acid and polyvinyl alcohol [14] , etc

Optimization of coagulation-flocculation process for ...

show that multiple response optimization tool could be used to establish an optimum condition for multiple (five) responses The response surface methodological approach was appropriate for optimizing the coagulation-flocculation process while minimizing the number of required experiments

OPTIMIZATION OF COAGULATION-FLOCCULATION PROCESS ...

OPTIMIZATION OF COAGULATION-FLOCCULATION PROCESS FOR COLOUR REMOVAL FROM AZO ... I A Obiora-Okafo & O D Onukwuli Nigerian Journal of Technology Vol 36, No 2, April 2017 484 was obtained by dissolving 1000mg/L of AR 101 in

Optimization of Coagulation/Flocculation for Treatment of ...

Journal of Environmental Treatment Techniques 2015, Volume 3, Issue 2, Pages: 170-174

Optimization of the coagulation / flocculation of ...

Optimization of the coagulation / flocculation of wastewater from oil refineries use of Response Surface Methodology H Oubrayme 1,2 *, S Souabi 2, M Bouhria 1, M Tahiri 3 , S Alami younssi 1, A Albizane1 1Laboratory of Materials Membranes and Environment, Department of Chemistry, Faculty of Science and Technology of

Optimization of coagulation-flocculation process for ...

of coagulation-flocculation process (Ying et al, 2011) Coagulation-flocculation is widely used for wastewater treatment, as it is efficient and simple to operate (Walsh et al, 2009; Ahmad et

OPTIMIZATION OF COAGULATION-FLOCCULATION IN THE ...

Optimization of coagulation-flocculation in the treatment of canal water 1565 The whole study was divided into two phases In Phase-I, a trial dose of each coagulant was initially

Optimization of chemicals used in coagulation ...

An investigation into the optimisation of chemicals used in coagulation-flocculation process in the Sabaki Water Works has been carried out The theoretical part of the study was devoted to a survey of basic coagulation theory, flocculation Kinetics, pH and alkalinity as related to coagulant dosage A brief review on polyelectrolytes; chemistry,

OPTIMIZATION OF CHEMICAL DOSING IN WATER ...

OPTIMIZATION OF CHEMICAL DOSING IN WATER TREATMENT FOR ENHANCED COAGULATION/SOFTENING AS IT PERTAINS TO DBP REMOVAL ____ A Thesis presented to the Faculty of the Graduate School at the University of Missouri-Columbia ____ In Partial Fulfillment

Modeling and Optimization of New Flocculant Dosage and pH ...

matrix with two of the most important operating variables in the flocculation process; hybrid copolymer dosage and pH were utilized for the study and for the optimization of the wastewater treatment process Response surface analyses showed that the experimental data could be adequately fitted to quadratic polynomial models Under the optimum

OPTIMIZATION OF COAGULANT AND COAGULANT AID IN ...

This thesis aimed to enhance the functions of coagulation and flocculation in the wastewater treatment process, which can lead to the optimal dosing of chemical reagent and the lower chemical residual in the post-treated wastewater The project was approached by ...

Optimization of the Coagulation Process to Remove Total ...

fulfilling the required effluent standard while minimizing the sludge production of the treatment process are investigated 2 Materials and methods Coagulation experiments were conducted using a Jar Test apparatus (JLT6, Velp) simulating the coagulation, flocculation and sedimentation phases (Roccaro et ...

APPLICATION NOTE Every Minute. Every Day. Coagulation ...

The benefits of optimizing the coagulation/ flocculation process is multi-faceted: 1) coagulant chemical costs are reduced, 2) sludge quality is

improved while costs associated with sludge disposal are reduced 3) filter run times are extended (run-time between backwashes is longer) In addition, optimized removal of organics along with

Determination of the Optimal Dosage of Aluminum Sulfate in ...

artificial neural networks, coagulation, flocculation, optimal dosage of coagulant I INTRODUCTION The potabilization process aims to offer safe water that fulfill the requirements established in the local regulations Inside these processes, one of the most used and important in superficial waters is the coagulation and flocculation, which

Optimization of coagulation-flocculation process for ...

Optimization of coagulation-flocculation process for pastas industry effluent using response surface methodology Khannous, L 1*, Abid, D 2, Gharsallah, N 3, Kechaou, N 2 and Boudhrioua Mihoubi, N 4 1Unité Hypothyroïdie et Goitre, Faculté des Sciences de Sfax-Tunisie

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