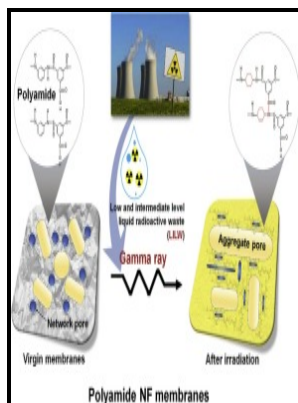


Gamma Irradiation Treatment of Secondary Sewage Effluent - A Report on A Pilot Plant Study.

s.n - Municipal effluent chlorination and dechlorination: principles, technologies and practices



Description: -

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Treatment of industrial wastewater with gamma irradiation for removal of organic load in terms of biological and chemical oxygen demand

Where disinfection is required and chlorine is used, the regulation requires the residual chlorine is to be limited to 0.

Disinfection of water and wastewater of Isfahan water and wastewater treatment plants by gamma irradiation Amin MM, Hashemi H, Bina B, Hatanzadeh M, Abdellahi M

Nucleic acids are the main target of ionizing radiation which causes destruction of the genetic material of microbes. Effects of gamma irradiation on physicochemical and biological characteristics of wastewater effluent and sludge.

Disinfection of water and wastewater of Isfahan water and wastewater treatment plants by gamma irradiation Amin MM, Hashemi H, Bina B, Hatanzadeh M, Abdellahi M

However, the off-line manual method requires a high level of training and skill to produce the required accuracy. Available from: Introduction Water and wastewater disinfection is performed using chemical or physical agents. Results of a coordinated research project.

Gamma

Irrespective of applied radiation dose, the treated water fully satisfied the quality requirements of household water that can be used for all home uses except for drinking and human contact uses. A dose of 1 000-2 000 Gy was required to inactivate 3-4 Log of coliforms in raw sewage. Water scarcity is a known and major issue throughout the world.

Municipal effluent chlorination and dechlorination: principles, technologies and practices

However, since this method has required considerable operator training and skill to be accurate, other methods, particularly the DPD colourimetric method, have been widely used in B. Materials and Methods : Using a 60 CO gamma radiation machine with emission rate of 405.

Wastewater treatment using gamma irradiation: Tétouan pilot station, Morocco

A decrease was observed in TSS, BOD 5, and COD with 79%, 81%, and 85% respectively. The orthotolodine method, despite previous widespread use, has been discontinued in favour of other measurement techniques.

[PDF] Study of gamma irradiation

The gamma irradiation was used for full-scale sewage disinfection in Germany. American Public Health Association APHA , Water Environment Federation WEF. Chemicals used for chlorination and dechlorination in BC tend to be a function of the economies of scale and the operator training and certification level related to treatment plant size.

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