

Mathematical modeling in chemical engineering

Gabriel Molina (University of Hamburg, Germany)

Every day in chemical plants engineers face several problems which pass through design of new plants and systems, develop new technologies, operational problems, control of chemical systems, etc. Due to decisions like operational costs, security of the new technologies, environmental issues and so on are really important engineers has to use modern tools which involves plenty of mathematics to make these decisions. This seminar explain in a short way how the process of solving a real chemical engineering problems is done, which kind of mathematics are imply on it and which kind of solutions the industry is waiting for.