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the first involves design and synthesis of a new chemical to directly replace a known chemical of concern or starting with the design step shown in figure 13 2 this approach typically involves evaluating the function and structure of that chemical and modifying its structure to meet the functional need while reducing the impacts of

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the reaction transforms primary alkyl halides into primary amines in figure 6 3 13 6 3 13 only the latter half of the reaction synthesis is shown traditionally the reaction uses potassium phthalimide an nh₂ synthon to homologate the alkyl which is later coupled to the amine

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the design of inherently safer molecules is a goal that anastas has been working towards for years he is well known as one of the co founders of the green chemistry movement which aims to cut

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design in its most simplistic composed of the following steps 1 viewpoint is determine the problem and its constraints 3 2 generate potential solutions develop sufficient detail that solutions can be compared and eliminated 4 implement the preferred solution

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conceptual design of chemical processes explaining the concepts behind process design this book uses a case study approach guiding readers through realistic design problems and referring back to these cases at the end of each chapter it also uses shortcut techniques that help engineers to obtain the

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we introduce automated chemical design and levels to clearly define the level of autonomy along the axes of ideation and decision making to fully illustrate this framework we provide literature exemplars and place some notable methods and applications into the levels

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1 introduction in chemical engineering design usually refers to design of equipment or design of all or the major part of a chemical processing plant considering safety and economic aspects but what are the perspectives of design in chemical engineering

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