



# Carrier Chiller Manual 19c

**Mike Jess**

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transformations can occur as a result of nuclear decay of radioactive isotopes or neutron capture neither procedure requires a change in the atom's element an atom gets transmuted into an atom of a different element when the number of protons in it is changed

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nuclear chemistry is the subfield of chemistry dealing with radioactivity nuclear processes such as nuclear transmutation and

nuclear properties it is the chemistry of radioactive elements such as the actinides radium and radon together with the chemistry associated with equipment such as nuclear reactors which are designed to perform

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unlike a normal chemical reaction that forms molecules nuclear reactions result in the transformation of one element into another this property of nuclear reactions is used in nuclear power plants to gather nuclear energy the three common types of radiations are explained below

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a nuclear reactor consists of the following a nuclear fuel a fissionable isotope must be present in large enough quantities to sustain a controlled chain reaction the radioactive isotope is contained in tubes called fuel rods a moderator

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apr 3 2019 in order to understand the origin and character of individual radioactive emissions accompanying nuclear transformation processes we first need to answer three questions what is an unstable nucleus

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transmutation the changing of one chemical element into another transmutation involves a change in the nucleus or core of an atom and is therefore a nuclear reaction transformations may result from nuclear decay of radioactive isotopes or they can result from neutron capture

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in all accelerators the particles move in a vacuum to avoid collisions with gas molecules when neutrons are required for transmutation reactions they are usually obtained from radioactive decay reactions or from various nuclear reactions occurring in nuclear reactors

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nuclear reaction a nuclear reaction is a process in which two nuclei or a nucleus and an external subatomic particle collide to produce one or more new nuclides the nuclear reaction is a reaction that involves nucleoids the reactant nucleoid called the parent nucleoid usually transforms into a different nucleoid called the daughter

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nuclear transmutation is the conversion of one chemical element or an isotope into another chemical element 1 nuclear transmutation occurs in any process where the number of protons or neutrons in the nucleus of an atom is changed a transmutation can be achieved either by nuclear reactions in which an outside particle reacts with a nucleus

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