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gas one of the three fundamental states of matter with distinctly different properties from the liquid and solid states the remarkable feature of gases is that they appear to have no structure at all they have neither a definite size nor shape whereas ordinary solids have both a definite size a pure gas may be made up of individual atoms e g a noble gas like neon elemental molecules made from one type of atom e g oxygen or compound molecules made from a variety of atoms e g carbon dioxide a gas mixture such as air contains a variety of pure gases a gas is defined as a state of matter consisting of particles that have neither a defined volume nor defined shape it is one of the four fundamental states of matter along with solids liquids and plasma under ordinary conditions the gas state is between the liquid and plasma states a gas is a state of matter that has no fixed volume or shape in other words a gas takes the shape and volume of its container gases condense into liquids or ionize into plasma the particles in a gas are more distant from each other than in liquids gas particles may be elements or compounds gas laws overview dalton s law law of partial pressures the ideal gas law the volume of a given gas sample is directly proportional to its absolute temperature at constant pressure charles s law the volume of a given amount of gas is inversely proportional to its pressure when temperature is held constant boyle s law to describe the characteristics of a gas the three common phases or states of matter are gases liquids and solids gases have the lowest density of the three are highly compressible and completely fill any container in which they are placed states of matter gas the simplest of all states of matter what is gas gas is the state of matter in which the particles are far apart fast moving and not organised in any particular way gases are substances that exist in the gaseous state which is one of the three fundamental states of matter article vocabulary natural gas is a fossil fuel like other fossil fuels such as coal and oil natural gas forms from the plants animals and microorganisms that lived millions of years ago there are several different theories to explain how fossil fuels are formed basics data statistics what is natural gas natural gas is a fossil fuel energy source natural gas contains many different compounds the largest component of natural gas is methane a compound with one carbon atom and four hydrogen atoms CH_4 natural gas a basic handbook second edition provides the reader with a quick and accessible introduction to a fuel source industry that is transforming the energy sector natural gas a basic handbook james g speight elsevier oct 1 2007 technology engineering 239 pages natural gas represents nearly one quarter of the world s energy resources more 1 a fluid such as air that has neither independent shape nor volume but tends to expand indefinitely 2 a a combustible gas or gaseous mixture for fuel or lighting especially natural gas b a gaseous product of digestion also discomfort from this c a gas or gaseous mixture used to produce anesthesia d noncount clouds of gas see also laughing gas mustard gas natural gas nerve gas tear gas b noncount a gas or mixture of gases that is burned as a fuel we heat our house with gas turn up the gas do you have a gas stove or an electric one 2 noncount us gas in your stomach and intestines that causes pain or discomfort written at an introductory level but still appropriate for engineers and other technical readers this book provides an overview of natural gas as a fuel source including its origins properties and composition natural gas a basic handbook second edition provides the reader with a quick and accessible introduction to a fuel source industry that is transforming the energy sector natural gas a basic handbook second edition provides the reader with a quick and accessible introduction to a fuel source industry that is transforming the energy sector written read full description download all chapters share this book table of contents actions for selected chapters deselect all download pdfs export citations noun uk gæs us gæs gas noun air substance add to word list b2 c or u a substance in a form like air that is neither solid nor liquid oxygen hydrogen and nitrogen are all gases poisonous inflammable toxic gas a2 c or u a substance in a form like air that is used as a fuel for heating and cooking natural gas remains a vital component of all energy sources and with an increasing demand for information on this useful energy source natural

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