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when natural gas was first discovered in appalachia in the 19th century its development as a fuel was rapid unlike oil and coal gas could be moved only by pipeline and required large containers for storage it was not possible to cope with peak loads without adding excessive pipeline capacity until just before world war ii when two sister gas companies developed a plant to liquefy and store natural gas as

a liquid the liquid was then regasified to deal with peak loads the liquid is 1 600 the volume of the gas but it requires storage at an extremely low temperature 1 260 f this worked well until 1944 when a liquid natural gas lng tank in cleveland ruptured and caused a fire with 130 fatalities the fire did not end the industry but caused it to pause over the next few years the problems in materials design standards and siting were solved the recognition that liquefaction made lng transportable without a pipeline was the breakthrough in 1959 a shipload of lng went from louisiana to britain and restarted the lng industry it is now a major worldwide energy industry and the topic of this work

michael faraday michael faraday is regarded as one of the founding fathers of modern physics his work in the field of electromagnetism revolutionized society leading to new avenues of study and developments of technology that would leave the world changed forever without faraday s discoveries there would be no electronics or electrical power there would be no technology as we recognize it or at the very least those technologies would have taken much longer to arise causing our time to look very different inside you will read about a blacksmith s son from bookbinder to man of science the royal institution electricity magnetism famous faraday and much more this book tells the story of michael faraday s life from birth to death and the remarkable discoveries he made during his lifetime

the complete correspondence which will comprise six volumes is a landmark resource for all historians of science and technology nearly two thirds of the letters in this 4th volume are previously unpublished they concern faraday s work on such diverse topics as terrestrial and atmospheric magnetism the electrification of lighthouses and the theory of telegraphic retardation as well as advice to the government on the war with russia his exclusion from the sandemanian church and his views on table turning correspondence with such figures as thomson babbage brunel schoenbein and whewell

the sixth volume of faraday s correspondence contains letters from the end of 1860 to his death in 1867 the dominant topic of the 1860s is faraday s involvement with the lighthouse service relating to his advice to trinity house and the board of trade on matters such as electric light and the controversial issue of fog signals

discover the extraordinary life of one of history s greatest scientific minds in walter jerrold s compelling biography michael faraday a tale of perseverance intellect and groundbreaking discoveries this book offers an inspiring glimpse into the man who revolutionized our understanding of electricity and magnetism from humble beginnings as the son of a blacksmith michael faraday s relentless curiosity and

passion for science led him to become one of the most influential physicists and chemists of the 19th century with no formal education he rose from a bookbinder's apprentice to a leading scientist at the royal institution making groundbreaking contributions to electromagnetism electrochemistry and the principles of induction jerrold masterfully brings faraday's journey to life capturing his struggles triumphs and the sheer determination that defined his career readers will explore his pioneering experiments with electric currents the invention of the electric motor and his discoveries that laid the foundation for modern technologies faraday's legacy extends beyond science his humility dedication to education and commitment to public lectures made knowledge accessible to all michael faraday is more than a biography it is a testament to the power of perseverance and intellectual curiosity the book explores key themes such as the role of scientific discovery in shaping society the impact of mentorship notably his relationship with sir humphry davy and the intersection of science and faith in faraday's life for science enthusiasts history lovers and anyone seeking inspiration this biography is an enlightening read walter jerrold's engaging narrative ensures that faraday's legacy remains alive reminding us that great minds can emerge from the most unexpected places step into the life of a visionary scientist and be inspired by the legacy of michael faraday get your copy today and explore the mind that changed the world

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