



Memoires

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 144 pages. Original publisher: Champaign, IL: US Army Corps of Engineers, Construction Engineering Research Laboratories ; Springfield, VA: National Technical Information Service, distributor, 1998 OCLC Number: ocm42414429 Subject: Composite materials. Excerpt: . . . USACERL TR-98 123 15 The above-identified property benefits can provide important property advantages when comparing piling products made from polymer composites to traditional materials such as wood, concrete, and steel. Composite Materials for Pilings Polymeric resin materials used to fabricate composite piling products involve two different resin types: thermoplastic and thermoset. Thermoplastics are comprised of long hydrocarbon polymer chains that are not chemically bonded to each other. Thermoplastic materials soften when heated and harden upon cooling, hence the joining of the terms thermo (heat) and plastic (formable). They can be remolded into a different shape through the use of heat and force. Assuming no thermal degradation or oxidation during multiple heating and cooling cycles, this process can be repeated indefinitely. Common examples of thermoplastics are polyethylene (PE), polypropylene (PP), polystyrene (PS), and polyvinyl chloride (PVC). Thermosetting resins are normally liquids, or in...



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