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engineering practices include identifying problems that need solving designing solutions to problems constructing models applying science and mathematics concepts in problem solving using technology in solving problems testing and evaluating solutions and communicating solutions this chapter examines the norms and standards of good conduct in professional practice ethical and sometimes legal requirements also exist for nonprofessionals when their work immediately affects the public good for example food handlers are bound by sanitary rules arguably many moral rules apply equally in all work contexts ethics in engineering practice and research second edition the first edition of caroline whitbeck s ethics in engineering practice and research focused on the

difficult ethical problems engineers encounter in their practice and in research in this paper we develop a description of engineering practice this description is based on published research on engineering work and on interview data from the engineering faculty it was undertaken as part of a larger study that is underway at the Carnegie Foundation for the Advancement of Teaching in this paper we develop a description of engineering practice this description is based on published research on engineering work and on interview data from the engineering faculty it the nine engineering practices proposed contain epistemological nuances that are missing in other proposals including essential aspects such as problem scoping identifying multiple solutions selecting testing and improving solutions and materializing solutions

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