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The Connecting Middle School and College Mathematics Project, funded by the National Science Foundation, has developed four new monographs for future middle school mathematics teachers. The materials are built upon a framework laid out in the CBMS Mathematical Education of Teachers Book (MET) (2001). Our books are designed to provide middle grade mathematics teachers with a strong mathematical foundation and connect the mathematics they are learning with the mathematics they will be teaching. Their focus is on algebraic and geometric structures, data analysis and probability, and mathematics of change, and employ standards-based middle grade mathematics curricular materials as a springboard to explore and learn mathematics in more depth. They have been extensively piloted in summer institutes, courses offered at school-based sites, a variety of professional development programs, and in courses offered at a number of universities throughout the nation. (Received August 22, 2006)