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keine andere wissenschaft ist in einem so hohen masse mathematisiert wie die physik aufgrund dieser engen verbindung beider wissenschaften muss geklart werden welche rolle die mathematik im physikunterricht spielen soll um einen theoretischen rahmen bereitzustellen wird ein didaktisches modell erarbeitet das mathematik und physikdidaktische

erkenntnisse mit wissenschaftstheoretischen argumenten zur rolle der mathematik in der physik verbindet unter der daraus resultierenden perspektive der konzeptuell mathematischen physik werden die aufgabenkultur im physikunterricht beleuchtet und neue aufgaben zum themengebiet der mechanik konstruiert die die ubersetzung zwischen physikalischer bedeutung und mathematischen strukturen thematisieren auf diesen aufgaben basiert die qualitative empirische studie die die verstandnisprobleme von schulerinnen und schulern neunter und zehnter klassen verschiedener gymnasien beim verbinden von physik und mathematik untersucht die analyse ergibt verschiedene problembereiche wobei sich insbesondere beim ubersetzen zwischen physikalischer bedeutung und mathematischen strukturen problematische vorstellungen zeigen so werden teilweise funktionale abhangigkeiten zwischen den faktoren eines produktes gesehen andererseits zeigt sich aber auch dass der abgleich zwischen der mathematischen herleitung und der physikalischen interpretation der entscheidende faktor fur das erfolgreiche losen einer aufgabe sein kann

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for courses in introductory calculus based physics a research driven approach to physics physics for scientists and engineers incorporates physics education research and cognitive science best practices that encourage conceptual development problem solving skill acquisition and visualization knight stresses qualitative reasoning through physics principles before formalizing physics mathematically developing student problem solving skills with a systematic scaffolded approach the text presents a finely tuned practical introduction to physics with problems that relate physics to everyday life and includes models modeling and advanced topics with the 5th edition new and expanded media and assessments in mastering

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