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はも一かり打きる This given mesulting expressions for all which are a valid solution. This leads to the se suit that if fis Acamalisad and osthogonal to a isois exp. (is) F (b) let (cb, + (20) be normalised à orthogonal Landition J(0, +0)*((, 0, + (, 0)) dr = ((, +(2)(1+d)) = - 6----tramalising conditioning given (1) de car as before (do,-0,0)[52-22 -(0) .. O has the orequiord properties

	Date:
As-2)	サンニートリル・マーンテルシナナーリルコケ
	Normalised conditions
5	
	$= (\frac{1}{3})^{2} + (-c)^{2} + (\frac{1}{3})^{2} + (\frac{1}{3})^{2} = 1$
10	1+2+1=1
	Hence the given state is normalised
15	
20	

Page: As-41 The suppose to volume ratio of material or substance made of new-posticle has a significant effect on the properties of the material. Malerial made-up of nano-particle shave relation large surfaces ones when compared to the same volume of material made up of bigger particles. It means that surface-volume ratio sincreases as radius of sphere decrease and vice-versa Haterial made up of nano-positicle have much greater subjace onéa por unit volume matio componed to material made of bigger particles. Quantum confinement is change of electronic and optical properties when the material 15 sample is of sufficiently small size of typically 10 nano-meter os less. Band map sucreases as size of nanc-stoucture decreeses. It is the spatial confinement of electron - hale excitation in one as more dimension within a material duantum well [D caofinement: 20 confinement : duantum wise duantum let 30 Earlinement.