**101 phy, General physics**

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**References**

* - David Halliday & Rebrert resnick, ’Fundamentals of physics’,,8th Edition, Extended version, John willy & sons, United States of America, 2008.
* - John Jewett, Raymond Serway, ’physics for scientists and Engineers’, 7th Edition, Thomson Learning,Inc, 2008
* -Marcelo Alonso& Edward finn, ‘Fundamental university physics’ ,Addison – wesley, second Edition, london,1980.
* - Michael masfuld & dam O’sullivan, ’understanding physics’, Wiley praxis, England,1999.