

ANISOTROPIC RELATIVISTIC SPHERES
WITH LINEAR DEPENDENCE BETWEEN
PRESSURE COMPONENTS

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A method for constructing solutions of the Einstein equations for a spherically symmetric distribution of anisotropic matter is examined. In the comoving frame, radial and tangential components of the pressure are assumed to be proportional one to another. Under this condition, a general solution in quadratures is presented. Some exact analytic solutions are obtained.