$$\int_{-\infty}^{\infty} f(y)\,dy = 1$$

$$\int_{0}^{\infty} ky^3 e^{-y/2}\,dy = 1$$

$$k\int_{0}^{\infty} y^3 e^{-y/2}\,dy = 1$$

$$k\int_{0}^{\infty} y^{4-1} e^{-y/2}\,dy = 1$$

$$k(2)^4\,\Gamma(4) = 1 \qquad \left(\text{Since } \int_0^{\infty} y^{\alpha-1}e^{-y/\beta}\,dy = \beta^{\alpha}\Gamma(\alpha) \Rightarrow \beta = 2, \alpha = 4\right)$$

$$k(16)(3-1)! = 1 \qquad \left(\text{Since } \Gamma(n) = (n-1)!\right)$$

$$16k(3\times 2) = 1$$

$$96k = 1$$

$$k = \frac{1}{96}$$

Mathematical Statistics With Applications Problem Solutions

Alston Scott Householder

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Mathematical Statistics with Applications Dennis Wackerly,William Mendenhall,Richard L. Scheaffer,2001-05 *Student Solutions Manual, Mathematical Statistics with Applications* , **Student Solutions Manual, Mathematical Statistics with Applications** K. M. Ramachandran,2009 **Devore/Berk's Modern Mathematical Statistics With Applications** Matthew A. Carlton,Kenneth N. Berk,Jay L. Devore,2006-01-03 The Student Solutions Manual provides worked out solutions to the selected problems in the text Problems in Probability Theory, Mathematical Statistics and Theory of Random Functions A. A. Sveshnikov,2012-04-30 Approximately 1 000 problems with answers and solutions included at the back of the book illustrate such topics as random events random variables limit theorems Markov processes and much more

Image and Video Technology Shin'ichi Satoh,2018-06-07 This book constitutes the thoroughly refereed post conference proceedings of five international workshops held in the framework of the 8th Pacific Rim Symposium on Image and Video Technology PSIVT 2017 in Wuhan China in November 2017 Workshop on Human Behavior Analysis Workshop on Educational Cloud and Image Video Enriched Cloud Services ECIVECS Workshop Vision Meets Graphics VG Workshop on Active Electro Optical Sensors for Aerial and Space Imaging EO4AS and Workshop on Computer Vision and Modern Vehicles CVMV The 34 revised full papers and 2 posters presented were carefully selected from 103 submissions The papers cover the full range of state of the art research in image and video technology with topics ranging from well established areas to novel current trends **Projects and Publications** United States. National Bureau of Standards. National Applied Mathematics Laboratories,1949 **Solutions Manual for Mathematical Statistics with Applications** Barbara M. Beaver,1974

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