



## Apex Blind Deconvolution of Color Hubble Space Telescope Imagery and Other Astronomical Data (Classic Reprint) (Paperback)

By Alfred S Carasso

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Apex Blind Deconvolution of Color Hubble Space Telescope Imagery and Other Astronomical Data In recent years. Much excellent work has been done in the area of blind deconvolution of astronomical data.4 11 Many of these methods aim primarily at undoing the distorting effects of atmospheric turbulence in short - exposure, ground - based observations. Multiframe algorithms. Typically involving several hundred short-exposure images of the same object, appear to be particularly effective. An interesting example of multiframe blind deconvolution, applied to ground - based surveillance of space objects, is given in Ref. 9. Apex processing is generally not useful in such short-exposure applications, and the method would probably be incapable of reproducing the results in Ref. 9. In a similar vein, consider the severely blurred early Hubble Space Telescope imagery caused by manufacturing flaws in the primary mirror. The much improved imagery following the 1993 implementation of corrective optics is best. Illustrated with the M100 galaxy images in Figure 2. Here, if apex processing were to be applied to the blurred image in Figure 2(a), the method would fail to identify the ?awed...



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