

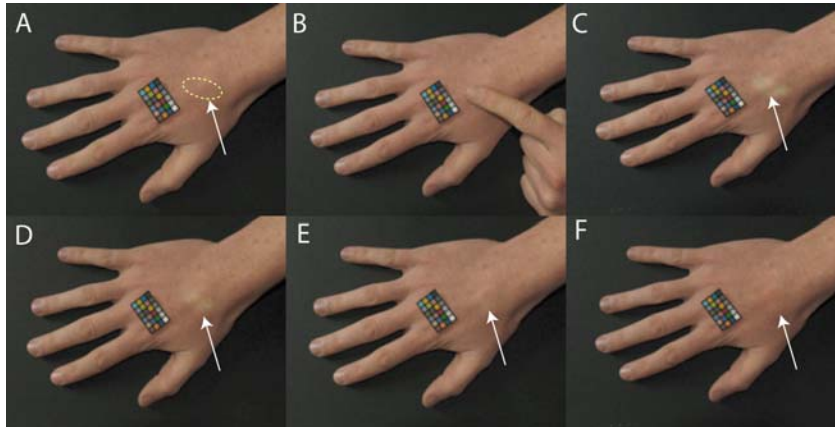
Incontinence: The Engineering Challenge VI

An Encrusted Catheter



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Picture taken from Daniel Osorio's paper "Measuring Skin Colour and Spectral Reflectance Using a Digital Camera"



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(A-F) Photographic images illustrating the blanching that results from the brief application and withdrawing of surface pressure. (A) A colour standard allows ColourWorker™ to make calibrated estimates from the images (white arrow, yellow ellipse marks sample region used to make subsequent reflectance spectrum estimates). (B) Application of pressure causes (C) whitening of the skin as a result of forcing blood from underlying vessels. (D) In healthy tissue blood returns rapidly to the site (E) to restore the skin to its original colour. (F) Although difficult to see in this photograph, Hyperaemia, an overcompensation in which the amount of blood returning to the site exceeds that originally present may also occur, causing a slight reddening (approx time interval, b - f = 3 s).