
Cellular Mobile Communication By Lee Pdf !!LINK!! Free 21

mobile phones are widely used as a communication tool in daily life, but their miniaturized form can be easily lost or stolen, and their use is incompatible with some medical or industrial applications. we demonstrate battery-free sensing of muscle contractions using a soft, battery-free, textile-based elastic strain sensor worn around the wrist and data acquisition with an nfc-enabled smartphone (fig. 1 c, supplementary fig. 18 a). the sensor is comprised of a conductive fabric with printed, responsive coil patterns embedded in a polyurethane elastomer layer (pue). these patterns are highly compliant, enabling the sensor to conform to the wrist, as demonstrated by strain measurements at the wrist of a dummy wearing the sensor. a maximum strain of 0.33% and a gauge factor of 3.3 were recorded. the strain sensor also exhibits sufficient compliance to realize flexible, fast, and accurate wireless readout using smartphone-based nfc (fig. 1 d, supplementary fig. 18 b). we demonstrate the use of the strain sensor to track the flexion-extension cycle of the wrist and to detect finger movements.

we investigate the feasibility of using a near-field-enabled clothing to interconnect battery-free wearable sensor nodes with a nearby reader for physiological monitoring. in this work, we demonstrate continuous physiological monitoring during an untethered running exercise. this capability is important in sport and health monitoring. using the same prototype platform, we demonstrate wireless power transfer and data acquisition using a smartphone-based near-field communication reader with multiple battery-free wearable sensors (fig. 4 a, b, c, supplementary figs. 27, 28, supplementary movie 3). the battery-free sensor nodes consist of a peltier-based temperature sensor and a strain gauge with a core-shell structure. the sensor node (supplementary fig. 26 a) is made of a custom elastomer with embedded spiral coils to form a near-field-enabled wearable thermal and strain sensor. an example of continuous and real-time temperature data obtained from a single strain sensor node is provided in supplementary fig. 26 b. the battery-free sensor node exhibits a linear response over a wide temperature range and real-time wireless temperature monitoring during the constant temperature-induced isothermal contraction and expansion cycles (supplementary fig. 26 c). the continuous gait monitoring system consists of multiple battery-free strain sensors, each of which is placed on the key joints of the lower limb (fig. 4 b, supplementary figs. 23, 24, supplementary movie 2). a smartphone reader is used to wirelessly power the battery-free sensors and to read and record the signals (supplementary fig. 27).

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