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importance of skeletal muscle (SM) in many physiological and disease processes, including the influence of aging on muscle wasting (2, 19, 20,21, 27, 30, 34) and the anabolic effects of physical training on muscle size (19, 36, 41).Identification of individuals with low or high quantities of muscle mass requires normative data based on large and heterogeneous ...

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Skeletal systems can be used in other environments as well, so they are not only used for the education of patients. Many classroom environments use skeletal systems to teach their students about the bone structure of the human body. Therefore, it is not unusual for skeleton

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systems to be used in secondary schools, medical schools, and more.

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Whether this rapid hyperemia occurs within contracted skeletal muscle in humans has yet to be confirmed, however. We therefore used diffuse correlation spectroscopy (DCS) to characterize the rapid hyperemia and vasodilatory responses within the muscle microvasculature induced by single muscle contractions in humans. Twenty-five healthy male volunteers performed single 1-s

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motor learning. When a movement is repeated over time, a long-term muscle memory is created for that task, eventually allowing it to be performed with little to no conscious effort.

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it's response properties (i.e., firing rates of its sensory afferents) are oftentimes inexplicable in terms of it operating ...

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open to students starting their junior year at Pratt. Attention is given to the recruitment of underrepresented populations in engineering—women, underrepresented minorities, and persons with disabilities.

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The results were verified by numerical

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simulation in MATLAB and PSpice. Results: It was found that with a decrease of d from 12 to 10 and 8 mm, the optimal outer radius of the transmitting coil increases from 53.9 to 54.6 and 55.7 mm. Turn pitch in the transmitting coil increases from 4.9 to 5.2 and 5.3 mm.

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