function [List\_BiomechanicalModels] = AddExternalMasses (table\_path, model\_path)

% Add fixed point masses to an existing 'Biomechanical model', to account for or simulate the presence of objects (heavy cloth, bag) attached to body segments

% - Each segment of the 'Biomechanical model' can be assigned an additional point mass

% - Several 'Biomechanical models' can be created from the same source 'Biomechanical Model'

% to add various patterns of additional masses (e.g. light then heavy backpacks)

% The source 'Biomechanical model' and the new 'Biomechanical models' are stored in a single structure

% TO DO: implementation for more complex ‘Biomechnical models’ (e.g. forearm with pronosupination)

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%

% Licence

% Toolbox distributed under GPL 3.0 Licence

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% INPUT

% BiomechanicalModel.m

% List of masse(s) to be added to the 'Biomechanical model' (Excel file). Information needed (see template):

% - Name\_model = name of the model(s) to be creates

% - Segment

% - Coordinates (x, y, z) of the added mass center or

% '%' of the length of the segment

% -starting from the segment root for limbs

% -starting from the segment lower extremity for the trunk

% -set positive values if the additional mass is located on the segment

% - Mass

%

%

% OUTPUT

% BiomechanicalModels stored in a structure, with the new BSIP (Body Segment Inertial Parameters)

% - List\_BiomechanicalModels

Une image contenant texte, capture d’écran, logiciel, conception

Description générée automatiquement