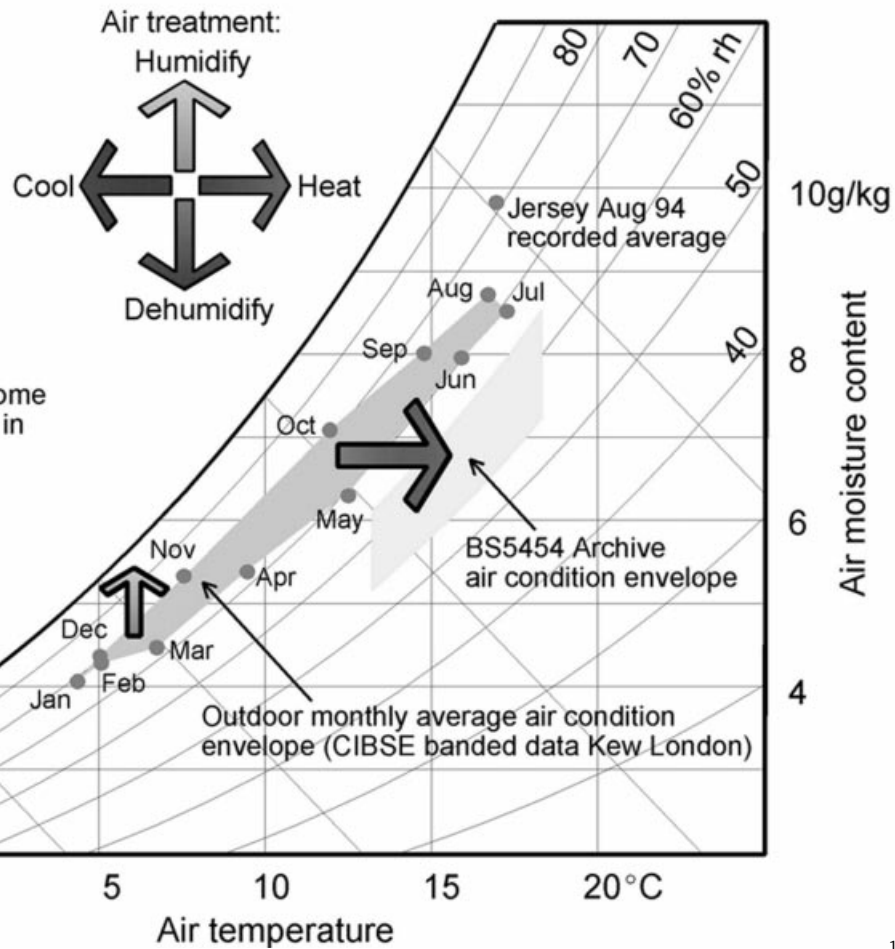


If building enclosure provides thermal & moisture flywheel effect sufficient to smooth out all but monthly & seasonal weather effect on room conditions:



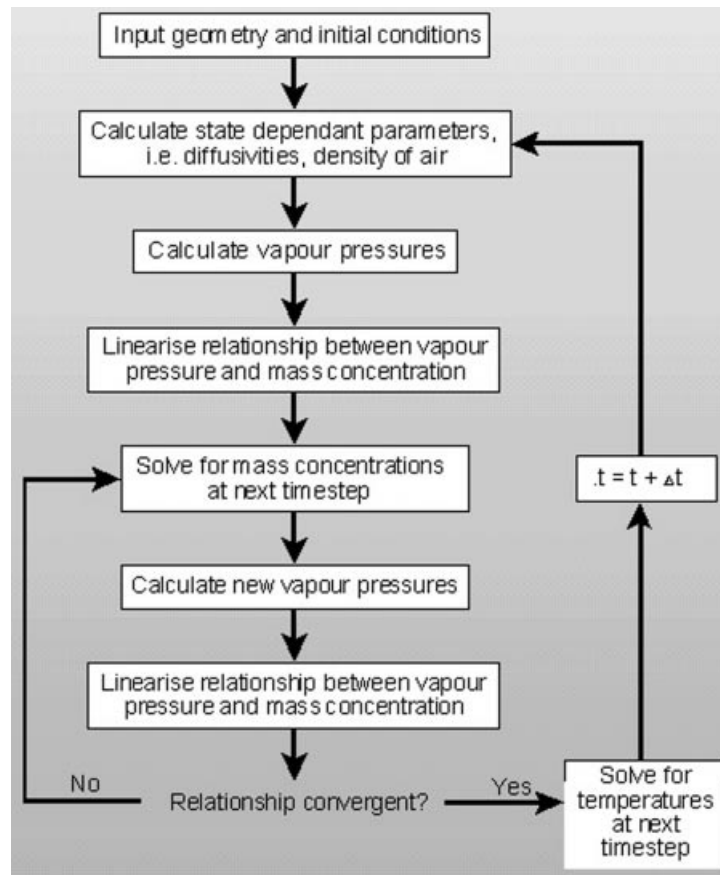
Outdoor air can be converted to BS5454 conditions by adding background heat & some winter moisture (held in fabric from previous summer)

This avoids the mechanical plant intensive cooling & dehumidification

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18 Concept stage psychrometric diagram. If the building enclosure provides thermal and moisture flywheel effect sufficient to smooth out all but monthly and seasonal weather effect on room conditions, then outdoor air can be converted to BS5454 conditions by adding background heat and some winter moisture (held in fabric from previous summer). This eliminates the need for mechanical plant, intensive heating and dehumidification

19 Algorithm flow chart for moisture flows and storage in the building fabric. See text for main modelling assumptions



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