(v.xxxvi) measuring said seventh current through said fifth or said eighth contact element,

(v.xxxvii) measuring a seventh voltage across said sixth and seventh contact elements,

(v.xxxviii) calculating a seventh resistance value ($R_{A,2}$) based on said seventh current and said seventh voltage,

(v.xxxix) applying an eighth electrical potential across said sixth and seventh contact elements for generating an eighth current in said surface portion at said first position,

(v.xl) measuring said eighth current through said sixth or said seventh contact element,

(v.xli) measuring an eighth voltage across said fifth and eighth contact elements,

(v.xlii) calculating an eighth resistance value ($R_{A',2}$) based on said eighth current and said eighth voltage,

(v.xliii) calculating a fourth resistance mean ($\overline{R_{AA'},_2}$) of said seventh resistance value ($R_{A,2}$) and said eighth resistance value ($R_{A',2}$),

(v.xliv) defining a ~~second~~ first relation including a fourth, fifth, and sixth parameter representing said first resistance mean ($\overline{R_{BB'},_1}$), said third resistance mean ($\overline{R_{AA'},_1}$), and a first pseudo sheet resistance ($R_{P,1}$), respectively,

(v.xlv) employing said first resistance mean ($\overline{R_{BB'},_1}$) and said third resistance mean ($\overline{R_{AA'},_1}$) as said fourth parameter and said fifth parameter, respectively, in said ~~second~~ first relation for determining said sixth parameter representing said first pseudo sheet resistance ($R_{P,1}$),

(v.xlvi) defining a ~~third~~ second relation including a seventh, eighth, and ninth parameter representing said second resistance mean ($\overline{R_{BB'},_2}$), said fourth resistance mean ($\overline{R_{AA'},_2}$), and a second pseudo sheet resistance ($R_{P,2}$), respectively,

(v.xlvii) employing said second resistance mean ($\overline{R_{BB'},_2}$) and said fourth resistance mean ($\overline{R_{AA'},_2}$) as said seventh parameter and said eighth parameter, respectively, in said ~~third~~ second relation for determining said ninth parameter representing said second pseudo sheet resistance ($R_{P,2}$),

(v.xlviii) defining a ~~fourth~~ third relation (g_D) including a tenth, an eleventh, and a twelfth parameter representing said first pseudo sheet resistance ($R_{P,1}$), said second pseudo sheet resistance ($R_{P,2}$), and said distance between said first position and said electrical boundary, respectively, and

(v.xlix) employing said first and said second pseudo sheet resistances ($R_{P,1}$, $R_{P,2}$) as said tenth and eleventh parameter, respectively, in said ~~fourth~~ third relation (g_D) for determining said twelfth parameter representing a value of said distance (y) between said first position and said electrical boundary.

6. A method for determining an electrical property at a first position on an electrically conducting surface portion of a test sample, said electrically conducting surface portion having an electrical boundary and said method comprising:

(a) determining a distance (y) between said first position on said electrically conducting surface portion of said test sample and said electrical boundary of said electrically conducting surface portion according to claim 1,

(b) defining a ~~fifth~~ first resultant relation including said electrical property and a fifteenth parameter representing said distance (y), and

(c) employing said distance (y) as said fifteenth parameter in said ~~fifth~~ first resultant relation for determining said electrical property.

7. A method for determining an electrical property at a first position on an electrically conducting surface portion of a test sample, said electrically conducting surface portion having an electrical boundary and said method comprising:

(a) determining an additional distance (y_2) between said first position on said electrically conducting surface portion of said test sample and said electrical boundary of said electrically conducting surface portion according to any of the claims 2 to 5,

(b) defining a first resultant ~~fifth~~ relation including said electrical property and a fifteenth parameter representing said additional distance (y_2), and

(c) employing said additional distance (y_2) as said fifteenth parameter in said first resultant ~~fifth~~ relation for determining said electrical property.

8. The method according to any of the claims 6 to 7 characterized by said first resultant ~~fifth~~ relation further including said spacing between the contact points of said first contact element, said second contact element, said third contact element, and/or said fourth contact element, and:

(b') in defining said first resultant ~~fifth~~ relation, said first resultant ~~fifth~~ relation further includes a sixteenth parameter representing the spacing between the contact points of said first contact element, said second contact element, said third contact element, and/or said fourth contact element, and

(c') in determining said electrical property, said spacing is used as said sixteenth parameter in said first resultant ~~fifth~~ relation in addition to said first distance (y) or said additional distance (y_2).

9. The method according to any of the claims 6 to 8 characterized by said electrical property being the Hall sheet resistance (R_H) and said first resultant ~~fifth~~ relation (f_1,f_2) further including a seventeenth parameter representing an additional first resistance difference ($\Delta R_{BB'}$), said method further comprising:

(d) applying an additional first electrical potential across said first and third contact elements for generating an additional first current in said surface portion at said first position,

(e) measuring said additional first current through said first or said third contact element,

(f) measuring an additional first voltage across said second and fourth contact elements, and

(g) calculating an additional first resistance value (R_B) based on said additional first current and said additional first voltage, or

(g') retaining said first resistance value (R_B) from said determining of said distance as an additional first resistance value (R_B), and

(h) applying an additional second electrical potential across said second and fourth contact elements for generating an additional second current in said surface portion at said first position,

(i) measuring said additional second current through said second or said fourth contact element,

(j) measuring an additional second voltage across said first and third contact elements, and

(k) calculating an additional second resistance value ($R_{B'}$) based on said additional second current and said additional second voltage, or

(k') retaining said second resistance value ($R_{B'}$) from said determining of said distance as an additional second resistance value ($R_{B'}$), and

(l) calculating said additional first resistance difference ($\Delta R_{BB'}$) based on the difference between said additional first resistance value and said additional second resistance value, or

(l') retaining said first resistance difference ($\Delta R_{BB'}$) from said determining of said distance as said additional first resistance difference ($\Delta R_{BB'}$).

10. The method according to claims 6 and 8 characterized by said electrical property being the Hall sheet resistance (R_H) and said first resultant ~~fifth~~ relation (f_2,f_3) further including a seventeenth parameter representing an additional second resistance difference ($\Delta R_{CC'}$), said method further comprising:

(d) applying an additional third electrical potential across said first and second contact elements for generating an additional third current in said surface portion at said first position,

(e) measuring said additional third current through said first or said second contact element,

(f) measuring an additional third voltage across said third and fourth contact elements, and

(g) calculating an additional third resistance value (R_C) based on said additional third current and said additional third voltage, or

(g') retaining said third resistance value (R_C) from said determining of said distance as an additional third resistance value (R_C), and

(h) applying an additional fourth electrical potential across said third and fourth contact elements for generating an additional fourth current in said surface portion at said first position,

(i) measuring said additional fourth current through said third or said fourth contact element,

(j) measuring an additional fourth voltage across said first and second contact elements, and

(k) calculating an additional fourth resistance value ($R_{C'}$) based on said additional fourth current and said additional fourth voltage, or

(k') retaining said fourth resistance value ($R_{C'}$) from said determining of said distance as an additional fourth resistance value ($R_{C'}$), and

(l) calculating said additional second resistance difference ($\Delta R_{CC'}$) based on the difference between said additional third resistance value and said additional forth resistance value, or

(l') retaining said second resistance difference ($\Delta R_{CC'}$) from said determining of said distance as said additional second resistance difference ($\Delta R_{CC'}$).

11. The method according to claim 7 and claim 8 or claim 7 and claim 9 characterized by said electrical property being the Hall sheet resistance (R_H) and said first resultant ~~fifth~~ relation (f_2,f_3) further including a seventeenth parameter representing an additional second resistance difference ($\Delta R_{CC'}$), said method further comprising:

(d) applying an additional third electrical potential across said first and second contact elements for generating an additional third current in said surface portion at said first position,

(e) measuring said additional third current through said first or said second contact element,

(f) measuring an additional third voltage across said third and fourth contact elements, and

(g) calculating an additional third resistance value (R_C) based on said additional third current and said additional third voltage,

(h) applying an additional fourth electrical potential across said third and fourth contact elements for generating an additional fourth current in said surface portion at said first position,

(i) measuring said additional fourth current through said third or said fourth contact element,

(j) measuring an additional fourth voltage across said first and second contact elements, and

(k) calculating an additional fourth resistance value ($R_{C'}$) based on said additional fourth current and said additional fourth voltage,

(l) calculating said additional second resistance difference ($\Delta R_{CC'}$) based on the difference between said additional third resistance value and said additional forth resistance value.

12. The method according to any of the claims 6 to 7 characterized by said electrical property being the Hall sheet resistance (R_H) and said first resultant ~~fifth~~ relation (f_1) further including a seventeenth parameter representing an additional third resistance difference ($\Delta R_{AA'}$), said method further comprising:

(d) applying an additional fifth electrical potential across said first and fourth contact elements for generating an additional fifth current in said surface portion at said first position,

(e) measuring said additional fifth current through said first or said fourth contact element,

(f) measuring an additional fifth voltage across said second and third contact elements, and

(g) calculating an additional fifth resistance value (R_A) based on said additional fifth current and said additional fifth voltage, or

(g') retaining said fifth resistance value (R_A) from said determining of said distance as an additional fifth resistance value (R_A), and

(h) applying an additional sixth electrical potential across said second and third contact elements for generating an additional sixth current in said surface portion at said first position,

(i) measuring said additional sixth current through said second or said third contact element,

(j) measuring an additional sixth voltage across said first and fourth contact elements, and

(k) calculating an additional sixth resistance value ($R_{A'}$) based on said additional sixth current and said additional sixth voltage, or

(k') retaining said sixth resistance value ($R_{A'}$) from said determining of said distance as an additional fifth resistance value ($R_{A'}$), and

(l) calculating said additional third resistance difference ($\Delta R_{AA'}$) based on the difference between said additional fifth resistance value and said additional sixth resistance value, or

(l') retaining said third resistance difference ($\Delta R_{AA'}$) from said determining of said distance as said additional third resistance difference ($\Delta R_{AA'}$).

13. The method according to any of the claims 6 to 8 characterized by said electrical property being the sheet resistance (R_0) and said first resultant ~~fifth~~ relation (g) further including a seventeenth parameter representing a pseudo sheet resistance (R_P), said method further comprising:

(d) applying an additional fifth electrical potential across said first and fourth contact elements for generating an additional fifth current in said surface portion at said first position,

(e) measuring said additional fifth current through said first or said fourth contact element,

(f) measuring an additional fifth voltage across said second and third contact elements,

(g) calculating an additional fifth resistance value (R_A) based on said additional fifth current and said additional fifth voltage, or

(g') retaining said fifth resistance value (R_A) from said determining of said distance as an additional fifth resistance value (R_A), and

(h) applying an additional sixth electrical potential across said second and third contact elements for generating an additional sixth current in said surface portion at said first position,

(i) measuring said additional sixth current through said second or said third contact element,

(j) measuring an additional sixth voltage across said first and fourth contact elements,

(k) calculating an additional sixth resistance value ($R_{A'}$) based on said additional sixth current and said additional sixth voltage, or

(k') retaining said sixth resistance value ($R_{A'}$) from said determining of said distance as an additional fifth resistance value ($R_{A'}$), and

(l) calculating a fifth resistance mean ($\overline{R_{AA'}}$) of said additional fifth resistance value (R_A) and said additional sixth resistance value ($R_{A'}$), and

(d") applying an additional first electrical potential across said first and third contact elements for generating an additional first current in said surface portion at said first position,

(e") measuring said additional first current through said first or said third contact element,

(f") measuring an additional first voltage across said second and fourth contact elements,

(g") calculating an additional first resistance value (R_B) based on said additional first current and said additional first voltage, or

(g"') retaining said first resistance value (R_B) from said determining of said distance as an additional first resistance value (R_B), and

(h") applying an additional second electrical potential across said second and fourth contact elements for generating an additional second current in said surface portion at said first position,

(i") measuring said additional second current through said second or said fourth contact element,

(j") measuring an additional second voltage across said first and third contact elements,

(k") calculating an additional second resistance value ($R_{B'}$) based on said additional second current and said additional second voltage, or

(k"') retaining said second resistance value ($R_{B'}$) from said determining of said distance as an additional second resistance value (R'_B), and

(l") calculating a sixth resistance mean ($\overline{R_{BB'}}$) of said additional first resistance value (R_B) and said additional second resistance value ($R_{B'}$), and

(m) defining a ~~sixth~~ second resultant relation including a eighteenth, nineteenth, and twentieth parameter representing said fifth resistance mean ($\overline{R_{AA'}}$), said sixth resistance mean ($\overline{R_{BB'}}$), and said pseudo sheet resistance (R_P), respectively,

(n) determining said pseudo sheet resistance (R_P) by using said fifth resistance mean ($\overline{R_{AA'}}$) and said sixth resistance mean ($\overline{R_{BB'}}$) as said eighteenth parameter and said nineteenth parameter, respectively, in said ~~sixth~~ second resultant relation.

14. An apparatus for determining a distance between a first position on an electrically conducting surface portion of a test sample and an electrical boundary of said electrically conducting surface portion, said apparatus comprising:

a multi-point probe comprising a first contact element, a second contact element, a third contact element, and a fourth contact element, each contact element defining a contact point for establishing an electrical contact with said test sample, and

a control unit adapted for performing the method for determining a distance or additional distance according to ~~any of the~~ claims 1 ~~to 5~~.

15. An apparatus for determining an electrical property at a first position on an electrically conducting surface portion of a test sample comprising:

a multi-point probe comprising a first contact element, a second contact element, a third contact element, and a fourth contact element, each contact element defining a contact point for establishing an electrical contact with said test sample, and

a control unit adapted for performing the method for determining an electrical property at a first position on an electrically conducting surface portion of a test sample according to ~~any of the~~ claims 6 ~~to 13~~.