



**60050-114-  
2021**

**(IEC 60050-114:2014+Amd 1, International electrotechnical vocabulary —  
Part 114: Electrochemistry, IDT)**

2021

60050-114—2021

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 4 60050-114:2014 « -  
 . 114. » (IEC 60050-114:2014 «International  
 electrotechnical vocabulary — Part 114: Electrochemistry». IDT), -  
 Amd 1. -  
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 1.5—2012 ( 3.5) -  
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 29 2015 . N9 162- « 26 -  
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 — (www.gost.ru)

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| 1      | ..... | 1  |
| 2      | ..... | 1  |
| 114-01 | ..... | 1  |
| 114-02 | ..... | 4  |
| 114-03 | ..... | 7  |
| 114-04 | ..... | 9  |
|        | ..... | 11 |
|        | ..... | 13 |
|        | ..... | 15 |



Electrochemistry. Terms and definitions

— 2022—03—01

1

60050-482.  
108.

108.  
80000-9.

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(www.electropedia.org) —

114-01

114-01-01 : electrochemistry

— 60050-111:1996

111-15-01.

151-11-16 60050-151:2007.

114-01-02 : electrolyte

1

2 60050-111:1996

111-15-02.

482-02-29 60050-482:2004.

114-01-03 : electrolytic conductivity

( )

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- 114-01-04 : dissolve, verb
- 114-01-05 : solute
- 114-01-06 : solvent
- 114-01-07 : solution
- 114-01-08 ( ): dissociation «electro-chemistry»
- 114-01-09 : degree of dissociation
- 114-01-10  $K_d$ : - dissociation constant
- 114-01-11 : neutralization
- 114-01-12 : anion
- 60050-111:1996 11115-08.
- 114-01-13 : cation
- 60050-111:1996 11115-09.
- 114-01-14 (112-03-17) : - saturated solution
- 114-01-15 L: solubility

|           |                     |  |
|-----------|---------------------|--|
| 114-01-16 | ( ) <sub>0</sub> :  | ion concentration                                    |
| 8.        | V                   | ,  |
|           | - n <sup>∧</sup> V. |  |
| 1         | —                   | , / <sup>3</sup> .                                   |
| 2         | 60050-111:1996      | 111-15-25.   |
| 114-01-17 | :                   | acid, acidic substance                               |
| 114-01-18 | :                   | base, alkaline substance                             |
| 114-01-19 | ( ) . :             | molality   |
|           | <sub>0</sub> = / .  |  |
| 1         | —                   | , / .  |
| 2         | 60050-111:1996      | 111-15-28.   |
| 114-01-20 | <sup>1)</sup> :     | ion activity   |
|           | b                   |  |
|           | *                   |  |
|           | = / *               |  |
| 1         |                     |  |
| 25' .     | 1 / ( ) .           | — 1013.25  |
| 2         | 60050-111:1996      | 111-15-26.   |
| 114-01-21 | pH:                 | pH   |
|           | *                   |  |
|           | pH = -10 lg ».      |  |
| 1         | 25 " :              |  |
|           | pH < 7              |  |
|           | pH = 7 —            |  |
|           | pH > 7 —            |  |
| 2         | 25 * . pH           | 7.   |
|           | 80000-9:2009.       |  |
| 3         | 60050-111:1996      | 111-15-37.   |
| 114-01-22 | :                   | stoichiometric number,<br>stoichiometric coefficient |
|           | >                   | ( )  |

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4 \* 2 2 — 2 + 2 2 , ; 1. 2 — 2. 2 — 1.

114-01-23

K<sub>SP</sub>:

- solubility product

= TM ( ) • ( ), —

114-01-24

/:

tonic strength

K<sub>SP</sub> =

2,

2^ t'

1

2

3

60050-111:1996

113-05-17.

111-15-29.

114-01-25

2:

oxidation number

113-05-17.

114-02

114-02-01

:

- electrochemical reaction

1

2

(113-02-15)

(113-02-16).

60050-482:2004.482-03-01.

114-02-02

, . v.

reaction rate

+... -> oS ....

1 dc(A) 1 dc(B) 1 dc(S) 1 dc(T)
~ a df " p df a df " t dr

A. B. ...

; S. T. ... —

: u, p..... , r,...

: ( ). ( ).....

c(S), ( ),... —

. .... S. ....

• - \*.



114-02-03 : , electrode

,  
”  
( 60050-151:2001. 151-134)1]

114-02-04 : , electrode reaction

— 60050-111:1996 111-15-03. -  
: « » « ».

114-02-05 : active surface of  
, electrode

1 60050-111:1996 111-15-04.  
2 60050482:2004. 482-02-26 «  
» « ».

114-02-06 [ ] : , side reaction, secondary  
reaction

1 60050-111:1996 111-15-05.  
- « ».  
2 482-03-13 60050-482:2004 « ».

114-02-07 : . parasitic reaction

1  
2 482-03-13 60050-482:2004 « ».

114-02-08 : , inert electrode  
( )

114-02-09 : , anodic reaction  
(113-02-15) (151-13\*02).

1 60050-111:1996 111-15-06.  
2 482-03-11 60050-482:2004

114-02-10 : , cathodic reaction  
(113-02-16) (151-13-03).

] « »  
« » ,  
,  
,

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|           |                |                |                 |  |  |
|-----------|----------------|----------------|-----------------|--|--|
| 1         | 60050-111:1996 |                |                 | 111-15*07.   |  |
| 2         |                | 482-03-12      | 60050-482:2004  |  |  |
| 114-02-11 |                | :              |                 | electrode potential                                    |  |
|           | —              | 60050-111:1996 |                 | 111-15-15.   |  |
| 114-02-12 | ( )            | :              | -               | equilibrium potential, electrode equilibrium potential |  |
| 1         |                |                |                 |  |  |
| 2         | 60050-111:1996 |                |                 | 111-15-16.   |  |
| 114-02-13 | ( )            | :              |                 | standard potential, electrode standard potential       |  |
|           |                |                | 11.             |  |  |
|           | —              | 60050-111:1996 |                 | 111-15-17.   |  |
| 114-02-14 | :              |                |                 | polarity   |  |
|           |                |                | «*»             |  |  |
|           |                |                |                 | «-» —  |  |
| 114-02-15 | :              |                |                 | electrode polarization                                 |  |
|           | —              | 60050-111:1996 |                 | 111-15-18.   |  |
|           |                |                | 482-03-02       | 60050-482:2004.  |  |
| 114-02-16 | :              |                |                 | - electrode passivation                                |  |
| 114-02-17 | :              |                |                 | - anodic polarization                                  |  |
| 1         | 60050-111:1996 |                |                 | 111-15-19.   |  |
| 2         |                | 482-03-06      | 60050-482:2004. |  |  |
| 114-02-18 | :              |                |                 | , cathodic polarization                                |  |
| 1         | 60050-111:1996 |                |                 | 111-15-20.   |  |
| 2         |                | 482-03-07      | 60050-482:2004. |  |  |
| 11        |                |                |                 | 114-01-20.   |  |

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114-02-19 ( ) : — , double layer, electrical double layer, electrical polarization layer

— 60050-111:1996 111-15-33.

114-02-20 ( . - ): - diffuse layer potential, . DEPRECATED: zeta potential

— 60050-111:1996 111-15-34.

114-03

114-03-01 1\*: , electrochemical cell

— 60050-111:1996 111-15-10.

114-03-02 : . galvanic cell, voltaic cell

1 . 60050-482.

2 60050-111:1996 111-15-11.

: « » - 482-01-01 60050-482:2004.

114-03-03 : , , electrochemical capacitor, supercapacitor

» (114-03-04).

114-03-04 : , - electrolytic capacitor

\*2\*

1

2

(114-03-03).

3

436-03-05 60050-436:1990

« ».

'| « »

« ».

« »

2>

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|                  |            |         |  |
|------------------|------------|---------|--|
| 114-03-05        | :          | ,       | - fuel cell  |
| ( 60050-482.     | 482-01-05. | :       | «  |
| ,                | »]         | «       | ,  |
| 114-03-06        | :          | ,       | - electrolytic cell  |
| — 60050-111:1996 | :          | -       | 111-15-12.   |
| 114-03-07        | ,          | :       | - current efficiency. Faraday efficiency                         |
| 114-03-08        | :          | ,       | - concentration cell   |
| 114-03-09        | ,          | :       | - thermocell, themnoganalvanic cell                              |
| 114-03-10        | :          | -       | cell voltage   |
| — 60050-111:1996 | :          | -       | 111-15-13.   |
| 114-03-11        | ); :       | ( ) ( . | - cell source voltage.<br>- DEPRECATED;<br>- electromotive force |
| 1                |            |         |  |
| 2 60050-111:1996 | :          |         | 111-15-14.   |
| 114-03-12        | :          |         | - cell polarization potential                                    |
| — 60050-111:1996 | :          |         | 111-15-21.   |
| 114-03-13        | :          |         | current density limit  |
| 114-03-14        | :          | ,       | - electrochemically active material                              |
| — 60050-111:1996 | :          |         | 111-15-22.   |
| 114-03-15        | :          |         | - reference electrode  |
| — 60050-111:1996 | :          |         | 111-15-30.   |

|               |                |                            |
|---------------|----------------|----------------------------|
| 114-03-16     | :              | hydrogen electrode         |
| 1             |                |                            |
| 2             | 60050-111:1996 | 111-15-31.                 |
| 114-03-17 ( ) | :              | electrochemical separator  |
| 1             |                |                            |
| 2             | 60050-111:1996 | 111-15-43.                 |
| 114-03-18     | :              | - catholyte                |
| 114-03-19     | :              | - anolyte                  |
| 114-04        |                |                            |
| 114-04-01     | :              | electro-osmosis            |
| —             | 60050-111:1996 | 111-15-35.                 |
| 114-04-02     | :              | electrocapillarity         |
| —             | 60050-111:1996 | 111-15-36.                 |
| 114-04-03     | :              | , electrochemical immunity |
| —             | 60050-111:1996 | 111-15-38.                 |
| 114-04-04 ( ) | :              | electrochemical passivity  |
| —             | 60050-111:1996 | 111-15-39.                 |
| 114-04-05     | :              | , cathodic protection      |
| —             | 60050-111:1996 | 111-15-40.                 |
| 114-04-06     | :              | electrochemical migration  |
| —             | 60050-111:1996 | 111-15-41.                 |
| 114-04-07     | :              | dendrite                   |
| —             | 60050-111:1996 | 111-15-42.                 |
| 114-04-08     | :              | - bioelectrochemistry      |

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|           |   |              |              |  |
|-----------|---|--------------|--------------|--|
| 114-04*09 | : |              |              | - electrolysis   |
| 114-04-10 | : |              |              | electroanalytical chemistry  |
| —         |   | (114-04-11). | (114-04-12). | (114-04-13),   |
|           |   | (114-04-14). |              |  |
| 114-04-11 | : |              |              | , voltammetry  |
| 114-04-12 | : |              |              | , - potentiometry  |
| 114-04-13 | : |              |              | , - coulometry   |
|           |   |              |              | -  |
| 114-04-14 | : |              |              | , electrogravimetry  |
|           |   |              |              | -  |
| 114-04-15 | : |              |              | electrocatalysis   |
| 114-04-16 | : |              |              | - electrocatalyst  |
| 114-04-17 | ; |              |              | - electroplating, galvanizing                                      |
| 114-04-18 | ; |              |              | - electrochemiluminescence. electrogenerated chemiluminescence ECL |
|           | ; |              | (845-04-27), |  |
| 114-04-19 | : |              |              | , photoelectrolytic cell   |

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114-01-20  
 114-01-12  
 114-03-19  
 114-04-08  
 114-01-05  
 114-04-11  
 114-03-07  
 114-04-17  
 114-04-07  
 114-02-20  
 114-01-08  
 114-04-05  
 114-01-13  
 114-03-18  
 114-01-17  
 114-03-03  
 114-03-04  
 114-03-03  
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 114-04-13  
 114-03-14  
 114-04-06  
 114-03-11  
 114-03-11  
 114-03-10  
 114-01-11  
 114-03-11  
 114-01-18  
 114-02-16  
 114-04-04  
 114-04-04  
 114-03-13  
 1144)2-05  
 1144)2-17  
 114-02-18  
 114-02-15  
 1144)3-12

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114-02-14  
114-02-20  
114-02-12  
114-02-13  
114-02-11  
114-02-12  
114-02-13  
114-04-12  
114-01-03  
114-01-23  
114-01-07  
114-01-14  
114-01-04  
114-01-15  
114-01-06  
114-02-09  
114-02-06  
114-02-10  
114-02-07  
114-02-06  
114-02-04  
114-02-01  
114-03-17  
114-03-17  
114-01-24  
114-03-11  
114-02-02  
114-02-19  
114-02-19  
114-01-09  
114-01-25  
114-03-03  
114-03-09  
114-04-03  
114-04-18  
114-04-10  
114-01-22  
114-04.14  
114-02-03  
114-03-16  
114-02-08  
114-03-15  
114-04-02  
114-04-15



|  |           |
|--|-----------|
|  | 114-04-16 |
|  | 114-04-09 |
|  | 114-03-06 |
|  | 114-01-02 |
|  | 114-04-17 |
|  | 114-04-01 |
|  | 114-04-18 |
|  | 114-01-01 |
|  | 114-03-02 |
|  | 114-03-08 |
|  | 114-03-09 |
|  | 114-03-05 |
|  | 114-03-07 |
|  | 114-04-18 |
|  | 114-04-19 |
|  | 114-03-01 |
| <b>acid</b>                            | 114-01-17 |
| <b>acidic substance</b>                | 114-01-17 |
| <b>active surface of an electrode</b>  | 114-02-05 |
| <b>alkaline substance</b>              | 114-01-18 |
| <b>anion</b>                           | 114-01-12 |
| <b>anodic polarization</b>             | 114-02-17 |
| <b>anodic reaction</b>                 | 114-02-09 |
| <b>anolyte</b>                         | 114-03-19 |
| <b>base</b>                            | 114-01-18 |
| <b>bioelectrochemistry</b>             | 114-04-08 |
| <b>cathodic polarization</b>           | 114-02-18 |
| <b>cathodic protection</b>             | 114-04-05 |
| <b>cathodic reaction</b>               | 114-02-10 |
| <b>catholyte</b>                       | 114-03-18 |
| <b>cation</b>                          | 114-01-13 |
| <b>cell polarization potential</b>     | 114-03-12 |
| <b>cell source voltage</b>             | 114-03-11 |
| <b>cell voltage</b>                    | 114-03-10 |
| <b>concentration cell</b>              | 114-03-08 |
| <b>coulometry</b>                      | 114-04-13 |
| <b>current density limit</b>           | 114-03-13 |
| <b>current efficiency</b>              | 114-03-07 |
| <b>degree of dissociation</b>          | 114-01-09 |
| <b>dendrite</b>                        | 114-04-07 |
| <b>diffuse layer potential</b>         | 114-02-20 |
| <b>dissociation «electrochemistry»</b> | 114-01-08 |

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|                                    |           |
|------------------------------------|-----------|
| dissociation constant              | 114-01-10 |
| dissolve, verb                     | 114-01-04 |
| double layer                       | 114-02-19 |
| ECL                                | 114-04-18 |
| electrical double layer            | 114-02-19 |
| electrical polarization layer      | 114-02-19 |
| electroanalytical chemistry        | 114-04-10 |
| electrocapillarity                 | 114-04-02 |
| electrocatalysis                   | 114-04-15 |
| electrocatalyst                    | 114-04-16 |
| electrochemical capacitor          | 114-03-03 |
| electrochemical cell               | 114-03-01 |
| electrochemical immunity           | 114-04-03 |
| electrochemical migration          | 114-04-06 |
| electrochemical passivity          | 114-04-04 |
| electrochemical reaction           | 114-02-01 |
| electrochemical separator          | 114-03-17 |
| electrochemically active material  | 114-03-14 |
| electrochemiluminescence           | 114-04-18 |
| electrochemistry                   | 114-01-01 |
| electrode                          | 114-02-03 |
| electrode passivation              | 114-02-16 |
| electrode polarization             | 114-02-15 |
| electrode potential                | 114-02-11 |
| electrode reaction                 | 114-02-04 |
| electrogenerated chemiluminescence | 114-04-18 |
| electrogravimetry                  | 114-04-14 |
| electrolysis                       | 114-04-09 |
| electrolyte                        | 114-01-02 |
| electrolytic capacitor             | 114-03-04 |
| electrolytic cell                  | 114-03-06 |
| electrolytic conductivity          | 114-01-03 |
| electromotive force (DEPRECATED)   | 114-03-11 |
| electro-osmosis                    | 114-04-01 |
| electroplating                     | 114-04-17 |
| equilibrium electrode potential    | 114-02-12 |
| equilibrium potential              | 114-02-12 |
| Faraday efficiency                 | 114-03-07 |
| fuel cell                          | 114-03-05 |
| galvanic cel                       | 114-03-02 |
| galvanizing                        | 114-04-17 |
| hydrogen electrode                 | 114-03-16 |
| inert electrode                    | 114-02-08 |
| ion activity                       | 114-01-20 |

|                              |     |           |
|------------------------------|-----|-----------|
| concentration                |     | 114-01-16 |
| tonic strength               |     | 114-01-24 |
| molality                     |     | 114-01-19 |
| neutralization               |     | 114-01-11 |
| oxidation number             |     | 114-01-25 |
| parasitic reaction           |     | 114-02-07 |
| passivity                    |     | 114-04-04 |
| pH                           |     | 114-01-21 |
| photoelectrolytic ceB        |     | 114-04-19 |
| polarity                     |     | 114-02-14 |
| potentiometry                |     | 114-04-12 |
| reaction rate                |     | 114-02-02 |
| reference electrode          |     | 114-03-15 |
| saturated solution           |     | 114-01-14 |
| secondary reaction           |     | 114-02-06 |
| side reaction                |     | 114-02-06 |
| solubility                   |     | 114-01-15 |
| solubility product           |     | 114-01-23 |
| solute                       |     | 114-01-05 |
| solution                     |     | 114-01-07 |
| solvent                      |     | 114-01-06 |
| standard electrode potential |     | 114-02-13 |
| standard potential           |     | 114-02-13 |
| stoichiometric coefficient   |     | 114-01-22 |
| stoichiometric number        |     | 114-01-22 |
| super capacitor              |     | 114-03-03 |
| thermocell                   |     | 114-03-09 |
| thermogalvantic cell         |     | 114-03-09 |
| voltaic ceB                  |     | 114-03-02 |
| voltammetry                  |     | 114-04-11 |
| zeta potential (DEPRECATED)  |     | 114-02-20 |
| <i>a</i>                     |     | 114-01-20 |
| $b_B \cdot m_e$              | ( ) | 114-01-19 |
| <i>ce</i>                    | ( ) | 114-01-16 |
| <i>1</i>                     |     | 114-01-24 |
| «a                           |     | 114-01-10 |
| $\kappa_{SP}$                |     | 114-01-23 |
| <i>L</i>                     |     | 114-01-15 |
| pH                           |     | 114-01-21 |
| <i>r.K. v</i>                |     | 114-02-02 |

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114-01-25

114-01-09

114-01-03

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