boron compounds, general properties

general remarks on boron compounds

general remarks on structure and chemical bond

structure and chemical bond of icosahedral boron-rich structures

α-rhombohedral boron structure group

β-rhombohedral boron structure group

α-tetragonal boron structure group

β-tetragonal boron structure group (tetragonal II or III)

orthorhombic γ-AlB_{12} structure group

orthorhombic SiB_6 structure

structure group of the REB_{50} type borides

structure group of AlB_{10}/C_4AlB_{24-26}

structure group of the orthorhombic $MgAlB_{14}$-type borides

further structure groups

general papers on icosahedral boron-rich solids

structural properties of hexaborides with B_6 octahedra

structural properties of tetraborides with B_6 octahedra

structural properties of dodecaborides with B_{12} cubo-octahedra

structural properties of compounds with other boride structures

general papers on borides

boron compounds with group I elements

properties of boron-hydrogen alloys

properties of binary boron-lithium compounds

properties of ternary boron-lithium compounds

properties of boron-sodium compounds

properties of boron-potassium compounds

properties of compounds with Ib elements

boron compounds with group II elements

properties of boron-beryllium compounds

properties of beryllium-aluminum-boron compounds

properties of boron-magnesium compounds

properties of boron-alkaline earth compounds

properties of boron-zinc compounds

properties of boron-cadmium compounds

boron compounds with group III elements

properties of Al-B-C compounds

properties of Al-Bcompounds: AlB_2, AlB_4, AlB_{10}

properties of Al-B: α-AlB_{12}

properties of Al-B compounds: AlB_{31}, $AlBeB_{22}$

properties of α-AlB_{12} type compounds

properties of Al-Mg-B and Al-Cu-B compounds

properties of β-AlB_{12}

properties of γ-AlB_{12}

properties of Al_3B_{32} and Al_xB_{105}

properties of Al-C-B compounds

properties of $Al_3C_2B_{48}$, $Al_3B_{48}C_2$, $C_2Al_3B_{48}$, $B_{48}Al_3C_2$

properties of further ternary Al-B compounds

properties of boron-scandium compounds

properties of boron-yttrium and Ln_3MB_7 compounds (except YB_{66})

properties of boron-yttrium compounds: YB_{66}

boron compounds with lanthanides

- general properties
- properties of LaB_4 type compounds
- properties of ternary $LnAlB_4$ tetraborides
- properties of lanthanide hexaborides: LaB_6
- properties of lanthanide hexaborides: CeB_6
- properties of lanthanide hexaborides: PrB_6
- properties of lanthanide hexaborides: NdB_6
- properties of lanthanide hexaborides: PmB_6
- properties of lanthanide hexaborides: SmB_6
- properties of lanthanide hexaborides: EuB_6
- properties of lanthanide hexaborides: GdB_6
- properties of lanthanide hexaborides: TbB_6, DyB_6

properties of lanthanide hexaborides: YbB_6

properties of lanthanide ternary hexaborides

properties of lanthanide dodecaborides

properties of lanthanide borides of the type MB_{25}

properties of lanthanide borides of the type MB_{50}

properties of lanthanide borides of the type MB_{66}: SmB_{66}

properties of lanthanide borides of the type MB_{66}: GdB_{66}

properties of lanthanide borides of the type MB_{66}: TbB_{66}

properties of lanthanide borides of the type MB_{66}: DyB_{66}

properties of lanthanide borides of the type MB_{66}: ErB_{66}, YbB_{66}

properties of $MgAlB_{14}$ type orthorhombic borides with lanthanides

boron compounds with actinides

- properties of boron-thorium compounds
- properties of boron-uranium compounds
- properties of boron-neptunium compounds
- properties of boron-plutonium and americium compounds
- properties of ternary actinide borides

boron compounds with group IV elements

B-C compounds: general properties of boron-carbon compounds

properties of special B-C compounds

boron carbide: structure, chemical bond, review articles

boron carbide: details of structure

boron carbide: electronic properties

boron carbide: impurities and defects

boron carbide: lattice properties

boron carbide: transport properties

boron carbide: optical properties

boron carbide: further properties

general papers on further properties of boron carbide

amorphous boron carbide

boron carbide doped with H, He, Mg, C, Si

boron carbide doped with N, P, O

boron carbide doped with Al

boron carbide doped with Ti, Cr, Fe

boron carbonitrides, ternary system boron-carbon-silicon

properties of boron-silicon compounds

properties of boron-germanium compounds

properties of boron-titanium compounds

properties of boron-zirconium compounds

properties of boron-hafnium compounds

boron compounds with group V elements

- properties of boron-nitrogen compounds
- properties of boron-phosphorus compounds
- properties of boron-arsenic compounds
- heat capacity of compounds with group Vb elements
- properties of boron-vanadium compounds
- properties of boron-niobium compounds
- properties of boron-tantalum compounds

boron compounds with group VI elements

properties of boron-oxygen compounds: $(BO)_x$, B_2O_3

properties of boron-oxygen compounds: B_2O

properties of boron-oxygen compounds: B_6O, $B_{12}O_2$, B_7O

properties of boron-sulfur compounds

properties of boron-selenium compounds

properties of boron-chromium compounds

properties of boron-molybdenum compounds

properties of boron-tungsten compounds and boron uranium carbon compounds

boron compounds with group VII elements

properties of compounds with group VIIa elements

properties of boron-manganese compounds

properties of boron-technetium compounds

properties of boron-rhenium compounds

boron compounds with group VIII elements

properties of boron-iron compounds

properties of solid solutions of Fe in β-rhombohedral boron

properties of boron-cobalt compounds

properties of boron-nickel compounds

properties of boron-ruthenium compounds

properties of boron-rhodium compounds

properties of boron-palladium compounds

properties of boron-osmium compounds

properties of boron-iridium compounds

properties of boron-platinum compounds

properties of ternary borides with group VIII elements

$CoSb_{3-x}Sn_x$

physical properties

$CrSi_2$

electronic properties

crystal structure of $CrSi_2$ and other TSi_2 phases

lattice parameters of $CrSi_2$ phases

transport properties

magnetic properties

density, melting point

physical properties of $CrSi_2$-type ternary alloys

Mn_nSi_{2n-m}

general characterization

general remarks on structure, chemical bond

space group, lattice parameters of Mn_nSi_{m-n} and $(Mn_{1-x}T_x)_nSi_{2n-m}$ systems

coordination distances of $Mn_{11}Si_{19}$

coordination distances of $Mn_{15}Si_{26}$

coordination distances of Mn_4Si_7

energy gap, effective masses of $Mn_{11}Si_{19}$, $Mn_{26}Si_{45}$

transport and optical properties of $Mn_{11}Si_{19}$, $Mn_{26}Si_{45}$

physical properties of $Mn_{15}Si_{26}$

physical properties of $Mn_{27}Si_{47}$ (except magnetic properties)

magnetic properties of $Mn_{27}Si_{47}$

physical properties of doped and ternary Mn_nSi_{2n-m} phases

$ReSi_2$, $Re_{1-x}M_xSi_2$

physical properties

crystal structures of $ReSi_2$ and other TSi_2 phases

crystallographic data

Ru_2Si_3

physical properties

crystal structure, chemical bond of Ru_nSi_{2n-m} compounds

space group, lattice parameters, density: room temperature modification

Ru_2Ge_3

physical properties

crystal structure, chemical bond of Ru_nGe_{2n-m} compounds

space group, lattice parameters, density: room temperature modification

Ru_2Sn_3

physical properties

crystal structure, chemical bond of Ru_nSn_{2n-m} compounds

space group, lattice parameters

Os_2Si_3

crystal structure, chemical bond of Os_nSi_{2n-m} compounds

space group, lattice parameters, density: room temperature modification

Os_2Ge_3

crystal structure, chemical bond of Os_nGe_{2n-m} compounds

space group, lattice parameters, density: room temperature modification

$FeSi_2$

electronic properties

crystal structures of $FeSi_2$ and other TSi_2 phases

lattice parameters, density for $FeSi_2$ phases

coordination distances of the atoms in the orthorhombic phase

transport properties

optical properties, dielectric constants

magnetic properties

phase transitions, Debye temperature, heat capacity, density

$OsSi_2$

physical properties

crystal structures of $OsSi_2$ and other TSi_2 phases

space group, lattice parameters

coordination distances of the atoms in the orthorhombic phase

$CrSb_2$

physical properties

(transition metal)-V-VI compounds

crystal structure, chemical bond

crystallographic and physical data for pyrite-type derivatives

crystallographic data for ternary marcasite-type semiconductors

crystallographic data for the arsenopyrite-type compounds

$Cr_{1-x}Fe_xSb_2$, $Fe_{1-x}Cr_xAs_2$

physical properties

$OsSb_{2-x}Te_x$, $CoSb_{2-x}Te_x$

physical properties

$NiAs_{2-x}S_x$, $NiAs_{2-x}Se_x$

physical properties

$CoSb_{3-x}Te_x$, $Fe_xCo_{1-x}As_{3-x}S_x$, $Fe_xCo_{1-x}As_{3-x}Se_x$

physical properties

FePS

physical properties

FeAsS

physical properties

FeSbS

crystal structure

FePSe

physical properties

FeAsSe

physical properties

FeSbTe

physical properties

$FeSb_{2-x}Te_x$

physical properties

RuPS

physical properties

RuAsS

physical properties

RuSbS

physical properties

RuPSe

physical properties

RuAsSe

physical properties

RuSbSe

physical properties

RuAsTe

physical properties

RuSbTe

physical properties

OsPS

physical properties

OsAsS

physical properties

OsSbS

physical properties

OsPSe

physical properties

OAsSe

physical properties

OsSbSe

physical properties

OsBiSe

physical properties

OsAsTe

physical properties

OsSbTe

physical properties

CoPS

physical properties

CoAsS

crystal structure, physical properties

CoSbS

physical properties

CoPSe

physical properties

CoAsSe

crystal structure, physical properties

CoSbSe

physical properties

CoSbTe

physical properties

PdPS

crystal structure and related properties

physical properties

PdPSe

physical properties

$PdPS_{1-x}Se_x$

physical properties

TP_4 compounds

crystal structure, chemical bond of transition metal tetraphosphides

crystallographic data for the transition-element tetraphosphides

interatomic distances in transition element tetraphosphides

MnP_4

physical properties

ReP_4

physical properties

(transition metal)-V_2 compounds

crystal structure, chemical bond of transition element dipnictides

crystallographic data of transition-element dipnictides with octahedrally coordinated cations

interatomic distances in pyrite- and pararammelsbergite-type transition element dipnictides

interatomic distances in marcasite- and loellingite-type transition element dipnictides

interatomic distances for binary arsenopyrite-type phases of transition element dipnictides

crystallographic data for the PdP_2-type compounds with square-planar cation coordination

interatomic distances and bond angles for the PdP_2-type compounds

FeP_2

physical properties

$FeAs_2$

physical properties

physical properties of Se-doped material

$Fe_{1-x}Co_xAs_2$, $Fe_{1-x}Ni_xAs_2$,

physical properties

$FeSb_2$

physical properties

$Fe_{1-x}Co_xSb_2$, $Fe_{1-x}Ni_xSb_2$

physical properties

RuP_2

physical properties

RuPAs

physical properties

$RuAs_2$, $RuSb_2$

physical properties

OsP_2

physical properties

$OsAs_2$

physical properties

$OsSb_2$

physical properties

CoP_2

physical properties

$CoAs_2$

physical properties

$Co_{1-x}Ni_xAs_2$, $Co_{1-x}Ni_xSb_2$

physical properties

$CoSb_2$

crystal structure, physical properties

RhP_2

physical properties

$RhAs_2$

physical properties

RhAsSb

physical properties

$RhSb_2$

crystal structure, physical properties

$RhBi_2$

physical properties

IrP_2

physical properties

$IrAs_2$

physical properties

IrAsSb

physical properties

$IrSb_2$

structure, physical properties

NiP_2

physical properties

$NiAs_2$

physical properties

$Ni_{1-x}Pd_xAs_2$

crystal structure

$NiSb_2$

physical properties

PdP_2

physical properties

PdPAs

physical properties

PtP_2

physical properties

PtPAs

physical properties

$PtAs_2$

physical properties

$PtSb_2$

electronic properties

lattice properties

transport properties

optical properties, dielectric constant

magnetic properties

thermal conductivity

doping, metal substitution

(transition metal)-V_3 compounds

crystal structure, chemical bond of transition element tripnictides

crystallographic data for semiconducting skutterudite-type compounds TX_3

physical data for skutterudite-type semiconductors

(transition metal)-$IV_{1.5}VI_{1.5}$ compounds

crystallographic and physical data for semiconducting skutterudite-type pseudo-pnictides

$T_{1-x}T'_xV_3$ compounds

doping and ternary phases of transition element tripnictides

FeP_4

physical properties

RuP_4

physical properties

OsP_4

physical properties

binary transition-metal oxides

considerations unique to transition-metal compounds

placement of d bands and formal valence

character of d electrons

titanium oxides

general characterization

titanium oxide (TiO_2)

thermodynamic parameters of phase transformation

crystal structure, lattice parameters and related parameters of anatase

crystal structure, lattice parameters and related parameters of rutile

crystal structure, lattice parameters and related parameters of brookite

band structure, band structure energies in rutile

energy gap, further interband transitions in rutile

exciton binding energy in rutile

properties of vibrational and Raman modes in rutile

paraelectric Curie temperature in rutile

elastic moduli, Debye temperature in rutile

absorption spectra, energy-loss spectra in rutile

dielectric constants in rutile

defects in non-stoichiometric TiO_{2-x} (rutile)

native defects in pure n-type TiO_{2-x} (rutile)

ESR parameters of native defects in pure n-type TiO_{2-x} (rutile)

(cont.)

point defect thermodynamics in pure n-type TiO_{2-x} (rutile)

transport properties in stoichiometric TiO_2 (rutile)

transport properties in non-stoichiometric TiO_{2-x}: conductivity and defect distribution

transport properties in non-stoichiometric TiO_{2-x}: resistivity vs. T^{-1}

transport properties in non-stoichiometric TiO_{2-x}: electron mobility

properties of impurity-doped rutile

physical properties of anatase

Ti_2O_3

- crystal structure, lattice parameters, density
- band structure, energy gap
- optical spectra
- wavenumbers of lattice modes
- dielectric constants
- elastic moduli, Debye temperature
- transport properties
- magnetic properties
- properties of doped Ti_2O_3

Ti_nO_{2n-1} ($n \geq 3$)

- crystal structure of low-temperature phase ($T < T_{tr}$) of Ti_3O_5
- crystal structure of high-temperature phase ($T > T_{tr}$) of Ti_3O_5
- crystal structure of Ti_4O_7
- crystal structure of Ti_5O_9
- crystal structure of Ti_6O_{11}, Ti_7O_{13}, Ti_8O_{15}, Ti_9O_{17}
- EPR spectra and defects in Ti_3O_5, Ti_4O_7
- transport properties
- optical properties
- magnetic properties
- physical properties of V-doped Ti_4O_7

V_nO_{2n-1}: n ≥ 3

crystal structure of V_3O_5

crystal structure of V_4O_7

crystal structure of V_5O_9

crystal structure of V_6O_{11}, V_7O_{13}, V_8O_{15}, V_9O_{17}

electronic and lattice properties, optical and magnetic data

transport properties

thermal properties at T_{tr}

V_nO_{2n+1}: n ≥ 3

crystal structure of V_6O_{13}

crystal structure of V_3O_7

crystal structure of V_4O_9

physical properties

V_2O_3

crystal structure, lattice parameters of pure material, room-temperature phase

interatomic distances and angles of pure material, room-temperature phase

crystal structure, lattice parameters of pure material, low-temperature phase

interatomic distances in pure material, low-temperature phase

phase transition data of pure material

properties of Cr and Al doped material: interatomic distances and angles

lattice parameters of Cr doped V_2O_3

anomalies of transformation heat in Cr and Al doped material

properties of Cr and Al doped material: extended Cr- and Al-data

electronic properties

phonon wavenumbers, elastic moduli, Debye temperature

transport properties, high-temperature phase, $T > T_{tr}$

transport properties, low-temperature phase, $T < T_{tr}$

optical properties

characteristic peak energies in optical spectra

magnetic properties

VO_2

- crystal structure, low temperature phase
- crystal structure, lattice parameters, high temperature phase
- coefficient of linear thermal expansion
- phase transition data
- effect of dopant ions on crystal structure
- electronic properties
- phonon wavenumbers, Debye temperature, heat capacity
- resistivity, conductivity, photoconductivity
- Seebeck coefficient
- Hall mobility
- effective electron masses
- plasmon data
- thermal conductivity
- transport in doped material
- optical properties, dielectric constants
- magnetic properties

V_2O_5

crystal structure, lattice parameters, density

interatomic distances and angles, thermal expansion

band structure: cluster calculations and data

energy gap

phonon wavenumbers

transport properties, low temperature range

transport properties, intermediate temperature range

transport properties, high temperature range

transport properties for doped material

optical properties

dielectric constants

MnO

phase diagram, crystal structure, lattice parameters

melting point, free energy

band structure, energy gap

phonon dispersion, phonon wavenumbers

elastic moduli, Debye temperature

lattice defects

transport data, low and intermediate temperatures

transport data, high temperatures

transport data, effects of stoichiometry, doping

optical properties

dielectric constants, refractive index

magnetic properties

FeO ($Fe_{1-x}O$)

- phase diagram, crystal structure
- lattice parameters, density
- band structure
- defects
- phonon dispersion, phonon wavenumbers
- elastic moduli, Debye temperature
- conductivity
- Seebeck coefficient
- carrier mobility
- optical properties, dielectric constant
- magnetic properties

CoO

phase diagram, crystal structure, lattice parameters

band structure, energy gap, interband transition energies

phonon wavenumbers

elastic moduli, Debye temperature

defects

electrical conductivity, Seebeck coefficient

hole mobility

optical properties, dielectric constants

magnetic properties

NiO

- crystal structure
- lattice parameter, thermal expansion
- band structure
- phonon dispersion, phonon wavenumbers
- elastic moduli, heat capacity, Debye temperature
- defects in pure NiO, conductivity
- carrier mobility, pure NiO
- transport properties in Li doped NiO
- dielectric relaxation in Li doped NiO
- optical properties, dielectric constants
- magnetic properties

PdO

crystal structure, lattice parameters, thermal expansion

enthalpy, entropy, dissociation pressure

energy gaps

transport properties

optical properties, dielectric constant

magnetic properties

Fe_3O_4

- crystal structure, high temperature phase
- lattice parameters, thermal expansion, density, high temperature phase
- crystal structure, lattice parameters, low temperature phase
- band structure
- phonon dispersion, phonon wavenumbers
- heat capacity, Debye temperature
- defect equilibria
- electrical conductivity
- Seebeck coefficient
- magnetoresistance, Hall effect data
- influence of substitution
- optical properties, dielectric constants
- magnetic properties

Co_3O_4

crystal structure, lattice parameters, Debye temperature

band structure energies

electrical conductivity, Seebeck coefficient

magnetic properties

Mn_3O_4

- phase transition, crystal structure, entropy, enthalpy
- lattice parameters
- transport properties
- optical properties
- magnetic properties

chromium sesquioxide (Cr_2O_3)

- crystal structure, lattice parameters
- thermal expansion, density, melting point
- band structure, energy gap
- phonon wavenumbers, elastic moduli
- transport mechanism, conductivity
- hole mobility, pressure dependence of transport parameters
- transport: effect of dopants
- optical properties, dielectric constants
- magnetic properties

higher oxides of chromium

crystal structure, general characterization

hematite (α-Fe_2O_3)

general characterization, crystal structure, lattice parameters

melting point, density

band structure

peak energies in optical spectra

phonon wavenumbers

defects in pure Fe_2O_3

carrier concentration, electrical conductivity in pure Fe_2O_3

Seebeck coefficient, carrier mobilities in pure Fe_2O_3

transport properties in doped Fe_2O_3

optical properties, dielectric constants

magnetic properties

Mn_2O_3

phase diagram, crystal structure, lattice parameters of low temperature phase

phase diagram, crystal structure, lattice parameters of high temperature phase

lattice parameters of doped Mn_2O_3

electrical conductivity, Seebeck effect

magnetic properties

MnO_2

phase diagram, crystal structure, lattice parameters

density, heat capacity, thermodynamic data

transport properties

magnetic properties

Nb_2O_5

phase diagram, modifications

crystal structure, lattice parameters of R-Nb_2O_5

crystal structure, lattice parameters of P-Nb_2O_5

crystal structure, lattice parameters of M-Nb_2O_5

crystal structure, lattice parameters, density of N-Nb_2O_5

crystal structure, lattice parameters, density of H-Nb_2O_5

parameters of H-T and B-T transition

crystal structure, lattice parameters, density of B-Nb_2O_5

crystal structure, lattice parameters, density of T-Nb_2O_5

crystal structure, lattice parameters, density of TT-Nb_2O_5

energy gap, optical properties

dielectric constants

wavenumbers of lattice modes

defect and transport properties

NbO_2

crystal structure, lattice parameters, density, low-temperature modification

crystal structure, thermal expansion, high-temperature modification

band structure, optical spectra

phonon wavenumbers

elastic moduli, Debye temperature

transport properties and stoichiometry

transport parameters

magnetic properties

Ta_2O_5

crystal structure and related parameters of L-Ta_2O_5

crystal structure and related parameters of H-Ta_2O_5

energy gaps

transport properties and non-stoichiometry

peaks in optical spectra

refractive index, dielectric constants

MoO_3

- phase diagram, crystal structure, lattice parameters, interatomic distances
- thermal expansion, density
- electronic properties: calculated cluster energies
- energy gap
- defects
- phonon wavenumbers
- electronic and ionic conductivity
- photocurrent
- optical properties, dielectric constants

tungsten oxides

- general characterization

WO_3

- crystal structure, general remarks
- structural and related data of α-WO_3
- structural and related data of β-WO_3
- structural and related data of γ-WO_3
- structural and related data of orthorhombic WO_3
- structural data of tetragonal WO_3
- band structure, energy gap
- defects
- phonon wavenumbers, Debye temperature
- transport properties, general
- transport properties, triclinic phase
- transport properties, monoclinic phase
- transport properties, reduced WO_3
- optical properties, dielectric constants
- magnetic properties

chalcogenides of Ti, Zr, Hf

crystal structure, chemical bond, general characterization

$Ti_{1+x}S_2$

crystal structure, physical properties

TiS_{3-x}

crystal structure, physical properties

$Ti_{1+x}Se_2$

crystal structure, physical properties

Zr_2S_3

crystal structure, physical properties

ZrS_2

crystal structure, physical properties

ZrS_{3-x}

crystal structure, physical properties

Zr_2Se_3

crystal structure, physical properties

$Zr_{1+x}Se_2$

crystal structure, physical properties

$ZrSe_3$

crystal structure, physical properties

Hf_2S_3

crystal structure, physical properties

HfS_2

crystal structure, physical properties

HfS_3

crystal structure, physical properties

Hf_2Se_3

crystal structure, physical properties

$HfSe_2$

crystal structure, physical properties

chalcogenides of V, Nb, Ta

crystal structure, chemical bond, general characterization

NbS_3

crystal structure, physical properties

TaS_2

crystal structure, physical properties

TaS_3

crystal structure, physical properties

chalcogenides of Cr, Mo, W

crystal structure, chemical bond, general characterization

CrS

crystal structure, physical properties

Cr_2S_3

crystal structure, physical properties

CrSe

crystal structure, physical properties

$Cr_{2+x}Se_3$

crystal structure, physical properties

Cr_3Se_4

crystal structure, physical properties

$Cr_{1-x}Te$

crystal structure, physical properties

MoS_2

crystal structure, physical properties

$MoSe_2$

crystal structure, physical properties

$MoTe_{2-x}$

crystal structure, physical properties

WS_2

crystal structure, physical properties

WSe_2

crystal structure, physical properties

WTe_2

crystal structure, physical properties

chalcogenides of Mn, Tc, Re

crystal structure, physical properties, general characterization

MnS

crystal structure, physical properties

MnS_2

crystal structure, physical properties

MnSe

crystal structure, physical properties

MnTe

crystal structure, physical properties

$MnTe_2$

crystal structure, physical properties

TcS_2

crystal structure, physical properties

$TcSe_2$

crystal structure, physical properties

$TcTe_2$

crystal structure, physical properties

ReS_2

crystal structure, physical properties

$ReSe_2$

crystal structure, physical properties

$ReTe_2$

crystal structure, physical properties

chalcogenides of Fe, Ru, Os

crystal structure, chemical bond, general characterization

$Fe_{1-x}S$

crystal structure, physical properties8

FeS_2

crystal structure, physical properties

$Fe_{1-x}Se$

crystal structure, physical properties

$FeSe_{2-x}$

crystal structure, physical properties

$FeSe_2$

crystal structure, physical properties

$Fe_{1-x}Te$

crystal structure, physical properties

$FeTe_2$

crystal structure, physical properties

RuS_2

crystal structure, physical properties

$RuSe_2$

crystal structure, physical properties

$RuTe_2$

crystal structure, physical properties

OsS_2

crystal structure, physical properties

$OsSe_2$

crystal structure, physical properties

$OsTe_2$

crystal structure, physical properties

chalcogenides of Co, Rh, Ir

crystal structure, chemical bond, general characterization

$Rh_{2/3}S_2$

crystal structure, physical properties

Rh_2S_3

crystal structure, physical properties

$RhS_{\approx 3}$

crystal structure, physical properties

$RhSe_2$

crystal structure, physical properties

$RhSe_{\approx 3}$

crystal structure, physical properties

IrS_2

crystal structure, physical properties

$IrS_{\approx 3}$

crystal structure, physical properties

$IrSe_2$

crystal structure, physical properties

$Ir_{2/3}Se_2$

crystal structure, physical properties

chalcogenides of Ni, Pd, Pt

crystal structure, chemical bond, general characterization

$Ni_{1-x}S$

crystal structure, physical properties

NiS_2

crystal structure, physical properties

PdS

crystal structure, physical properties

PdS_2

crystal structure, physical properties

PdSe

crystal structure, physical properties

$PdSe_2$

crystal structure, physical properties

PtS

crystal structure, physical properties

$Pt_{0.97}S_2$

crystal structure, physical properties

$PtSe_2$

crystal structure, physical properties

LaH_x

crystal structure, physical properties

LaD_x

crystal structure, physical properties

CeH_x

crystal structure, physical properties

CeD_x

crystal structure

PrH_x

crystal structure, physical properties

EuH_2

crystal structure, physical properties

DyH_3

crystal structure

HoH_3

crystal structure

ErH_3

crystal structure

ErD_x

crystal structure, physical properties

NdH_x

crystal structure, physical properties

GdH_x

crystal structure, physical properties

YH_x

crystal structure, physical properties

YD_x

crystal structure, physical properties

YbH_x

crystal structure, physical properties

YP

crystal structure, physical properties

LaP

crystal structure, physical properties

SmP

crystal structure, physical properties

ErP

crystal structure, physical properties

LuP

crystal structure, physical properties

SmS

crystal structure, physical properties

SmSe

crystal structure, physical properties

SmTe

crystal structure, physical properties

EuO

crystal structure, physical properties

EuS

crystal structure, physical properties

EuSe

crystal structure, physical properties

EuTe

crystal structure, physical properties

TmTe

crystal structure, physical properties

$TmSe_{1-x}Te_x$

crystal structure, physical properties

$Tm_{1-x}Eu_xSe$

crystal structure, physical properties

$SmS_{1-x}Se_x$

crystal structure, physical properties

YbS

crystal structure, physical properties

YbSe

crystal structure, physical properties

YbTe

crystal structure, physical properties

Sm_3S_4

crystal structure, physical properties

Sm_3Se_4

crystal structure, physical properties

Sm_3Te_4

crystal structure

Eu_3S_4

crystal structure, physical properties

Eu_3Se_4

physical properties

Eu_3Te_4

crystal structure, physical properties

La_2O_3

crystal structure, physical properties

Nd_2O_3

crystal structure, physical properties

Sm_2O_3

crystal structure, physical properties

Eu_2O_3

crystal structure, physical properties

Gd_2O_3

crystal structure, physical properties

Tb_2O_3

crystal structure, physical properties

Dy_2O_3

crystal structure, physical properties

Ho_2O_3

crystal structure, physical properties

Er_2O_3

crystal structure, physical properties

Tm_2O_3

crystal structure, physical properties

Yb_2O_3

crystal structure, physical properties

La_2S_3

crystal structure, physical properties

$La_{10}S_{14}O_xS_{1-x}$, $La_{10}S_{14}O$

crystal structure

La_2Se_3

crystal structure, physical properties

La_2Te_3

crystal structure, physical properties

Ce_2S_3

crystal structure, physical properties

Ce_2Se_3

crystal structure, physical properties

Ce_2Te_3

crystal structure, physical properties

Pr_2S_3

crystal structure, physical properties

Pr_2Se_3

crystal structure, physical properties

Pr_2Te_3

crystal structure, physical properties

Nd_2S_3

crystal structure, physical properties

Nd_2Se_3

crystal structure, physical properties

Nd_2Te_3

crystal structure, physical properties

Sm_2S_3

crystal structure, physical properties

Sm_2Se_3

crystal structure, physical properties

Eu_2Se_3

physical properties

Gd_2S_3

crystal structure, physical properties

Gd_2Se_3

crystal structure, physical properties

Tb_2S_3

crystal structure, physical properties

Dy_2S_3

crystal structure, physical properties

Dy_2Se_3

crystal structure, physical properties

Ho_2S_3

crystal structure, physical properties

Er_2S_3

crystal structure, physical properties

Tm_2S_3

crystal structure

Tm_2Se_3

crystal structure, physical properties

Tm_2Te_3

crystal structure

Yb_2S_3

crystal structure, physical properties

Lu_2S_3

crystal structure, physical properties

LaS_2

crystal structure, physical properties

$LaTe_2$

crystal structure, physical properties

CeS_2

crystal structure, physical properties

PrS_2

crystal structure, physical properties

$LaTe_3$

crystal structure, physical properties

Y_2Cl_3

crystal structure, physical properties

La_2Cl_3

crystal structure, physical properties

Gd_2Cl_3

crystal structure, physical properties

Tb_2Cl_3

crystal structure, physical properties

Tm_2Cl_3

crystal structure, physical properties

Lu_2Cl_3

crystal structure, physical properties

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