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Eğitim Bilgileri

Doktora, University of London-Kings College London, Birleşik Krallık 1980 - 1984

Lisans, Hacettepe Üniversitesi, Mühendislik Fakültesi, Türkiye 1972 - 1977

Yaptığı Tezler

Doktora, Analysis of the Critical Phenomena using Raman data, University Of London-Kings College London, 1984

Araştırma Alanları

Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2003 - Devam Ediyor

Prof. Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 1994 - 2003

Doç. Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 1988 - 1994

Yrd. Doç. Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, 1987 - 1988

Araştırma Görevlisi, Ankara Üniversitesi, Fen Fakültesi, 1985 - 1987

Verdiği Dersler

Thermodynamics and Statistical Mechanics, Lisans, 2020 - 2021

Yönetilen Tezler

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Tricritical behavior of the smectic-hexatic phase transitions in binary mixtures using the Landau mean field theory**
YURTSEVEN H. H., Kilit Doğan E.
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- II. **Calculation of the T - X phase diagram and the thermodynamic quantities for the binary mixtures of Tetradecane + Hexadecane using the Landau mean field model**
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- III. **Investigation of the complex magnetic behavior of Ni_{46.86}Co_{2.91}Mn_{38.17}Sn_{12.06}(at%) magnetic shape memory alloy at low temperatures**
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- IV. **Calculation of the T - X phase diagram of tetradecane + hexadecane and tetradecane + pentadecane under high pressure by the Landau mean field theory**
Tari O., YURTSEVEN H. H.
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- V. **Calculation of the phase diagram of n-alkanes (C_nH_{2n+2}) by the Landau mean field theory**
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- VII. **Magnetic transitions in two novel mixed-valence iron(II)-iron(III) metal formate frameworks: Two**

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- VIII. **Calculation of the magnetization and the heat capacity for $[\text{NH}_2 \text{NH}_3][\text{M}(\text{HCOO})_3]$ ($\text{M}=\text{Fe}, \text{Mn}$) near the phase transitions**
YURTSEVEN H. H., Doğan E.
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- IX. **Calculation of the spin-lattice relaxation time and the activation energy near the IV-III phase transition in pyridinium fluorosulfonate (C_5NH_6) FSO_3**
Kara N., Kiraci A., YURTSEVEN H. H.
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- X. **Magnetic, thermal and ferroelectric properties of MOFs (MHyM , $\text{M} = \text{Fe}, \text{Mn}$) close to phase transitions**
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- XI. **Calculation of the Liquid-Solid Phase Diagram and the Thermodynamic Quantities of the Binary System of Tetradecane and Hexadecane Using the Mean Field Theory**
Yurtseven H., Emirosmanoglu T., Tari O.
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- XII. **Landau phenomenological model for the alpha-INC (incommensurate)-beta transition in quartz**
Yurtseven H. H., Ates S.
PHILOSOPHICAL MAGAZINE, cilt.101, sa.21, ss.2331-2353, 2021 (SCI-Expanded)
- XIII. **Investigation of vibrational, elastic and dielectric properties of cubic gauche nitrogen (cg-N)**
Akay Ö., YURTSEVEN H. H.
Optik, cilt.236, 2021 (SCI-Expanded)
- XIV. **Calculation of the damping constant and the relaxation time of the LA mode in the incommensurate phase of quartz**
Ates S., Yurtseven H.
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- XV. **Phenomenological approaches on the Nd^{3+} doped ferroelectric LaBGeO_5**
Kara N., Kiraci A., YURTSEVEN H. H.
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- XVI. **Calculation of the inverse relaxation time and the activation energy as a function of temperature for the Raman modes close to the phase transitions in solid nitrogen**
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- XVII. **Calculation of Magnetization and Magnetic Susceptibility Close to Magnetic Phase Transitions in $(\text{CH}_3)_2\text{NH}_2\text{FeIINiII}(\text{HCOO})_6$ and $(\text{CH}_3)_2\text{NH}_2\text{FeIIICuII}(\text{HCOO})_6$**
YURTSEVEN H. H., Tari O.
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- XVIII. **Analysis of the IR-Raman Modes and the Heat Capacity Near the α -Inc- β Transitions in Quartz**
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- XIX. **Temperature dependence of the piezoelectric resonance frequency in relation to the anomalous strain near the incommensurate phase of quartz**
Ates S., Yurtseven H.
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- XX. **Calculation of the thermodynamic functions from the Raman frequency shifts close to the $\epsilon - \delta(\text{loc}) - \delta$ transitions and Pippard relations in nitrogen**
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- XXI. **Thermodynamic study on the magnetic transition and structural phase transition in $[(\text{CH}_3)_2\text{NH}_2][\text{Na}_0.5\text{Fe}_0.5(\text{HCOO})_3]$ by using the Landau phenomenological model**
Yurtseven H., Tari O.
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- XXII. **Magnetization Studied as a Function of Temperature and Magnetic Field for Ferromagnetic Transition in DMNaFe**
Kilit Dogan E., Yurtseven H.
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- XXIII. **Raman bandwidths calculated for the librational (α -phase) and internal (β , δ loc and δ phases) modes in solid N_2 using pseudospin-phonon coupling (PS) and energy-fluctuation (EF) models**
Yurtseven H., Akay O.
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- XXIV. **Calculation of the Raman frequency and linewidth of vibrons using anharmonic self energy model for the ϵ , δ loc and δ phases in solid nitrogen**
Akay Ö., YURTSEVEN H. H.
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- XXV. **Landau mean-field model with the cubic term for the alpha-beta transition in quartz**
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- XXVI. **Calculation of the thermodynamic functions using a mean field model for the fluid-solid transition in nitrogen**
AKAY Ö., YURTSEVEN H. H.
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- XXVII. **Liquid-(Solid plus Liquid) Transitions in a Two-Component System of $(\text{CH}_3)\text{CCl}_3 + \text{CCl}_4$**
Yurtseven H., Akayu O.
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- XXVIII. **Sm A - ferroelectric- Sm C transition in the mixture of $\text{C7}+10.0.4$ and in the ferroelectric C7**
Aksoy S., Kurt M., Yurtseven H.
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- XXIX. **Magnetic ordering in two ferromagnetic sublattices of two mixed-valence iron(II)-iron(III) metal formate frameworks**
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- XXX. **Temperature dependence of the IR mode frequency calculated from the volume data for DMNaFe**
Alguel G., Enginer Y., Yurtseven H.
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- XXXI. **Order-disorder transition in the ferroelectric LiTaO_3**
KIRACI A., Yurtseven H.
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- XXXII. **Analysis and calculation of the magnetization, magnetic susceptibility and the specific heat close to phase transitions in heterometallics**
Dugan E. K., Yurtseven H.
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- XXXIII. **Damping constant and the inverse relaxation time calculated as a function of pressure using the X-ray diffraction data close to the cubic-tetragonal phase transition in SrTiO_3**
YURTSEVEN H. H., Kiraci A.
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- XXXIV. **Calculation of the infrared frequency and the damping constant (full width at half maximum) for metal organic frameworks**
Kurt M., Yurtseven H., Kurt A., Aksoy S.
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- XXXV. **Calculation of the thermodynamic quantities of perovskite metal organics DMAKCr and perovskite HyFe close to the weakly first-order relaxor-like structural transformation using the mean field theory**
Yurtseven H., Tari O.
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- XXXVI. **Temperature dependence of magnetic and thermal properties of chiral HyFe and HyMn close to phase transitions by using the Landau mean field model**
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- XXXVII. **Calculation of the Raman and IR frequencies as order parameters and the damping constant (FWHM) close to phase transitions in methylhydrazinium structures**
KURT M., YURTSEVEN H. H., Kurt A.
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- XXXVIII. **Resonant frequency shifts related to the elastic constants near the alpha-beta transition in quartz**
YURTSEVEN H. H., Ates S.
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- XXXIX. **CALCULATION OF THE PHASE DIAGRAMS FOR THE FLUID-SOLID AND SOLID-SOLID ($\delta\delta(\text{loc})$ - ϵ) TRANSITIONS IN MOLECULAR NITROGEN BY USING MEAN FIELD MODEL**
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- XL. **Calculation of the heat capacity Cp from the temperature-induced and pressure-induced Raman frequency shifts for solid benzene, naphthalene and anthracene**
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- XLI. **Calculation of the T-P Phase Diagrams for the Halogenomethane Compounds (CCl4-nBrn, n=0, 1, 2, 4) Using the Mean Field Theory**
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- XLII. **Temperature and the field dependence of the magnetization close to order-disorder phase transitions in DMMn and the chromium-doped DMMn**
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- XLIII. **Calculation of the tilt angle and susceptibility as functions of temperature and the electric field close to the Sm A - Sm C* transition in C7**
AKSOY S., YURTSEVEN H. H., KURT M.
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- XLIV. **Thermodynamic Parameters of Cholesteric/Smectic A Transition in Cholesteric Myristate and Its Binary Mixture CM/PCPB**
YURTSEVEN H. H., Doğan E.
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- XLV. **Correlations between the resonant frequency shifts and the thermodynamic quantities for the alpha-beta transition in quartz**
Lider M. C., YURTSEVEN H. H.
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- XLVI. **T-P Phase Diagram of Nitrogen at High Pressures**
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- XLVII. **Analysis of the Specific Heat of Ru Doped LiKS04 Close to Phase Transitions**
YURTSEVEN H. H., Tirpanci D. V., KARACALI H.
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- XLVIII. **Pressure-dependent Raman modes near the cubic-tetragonal transition in strontium titanate**

- KİRACI A., YURTSEVEN H. H.
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- XLIX. **Calculation of the Raman frequency and the damping constant (linewidth) of the stretching modes for the metal-organic compound DMMg close to the paraelectric-ferroelectric transitions**
YURTSEVEN H. H., Aslan A.
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- L. **Calculation of the C-P-C-V as a function of temperature close to the melting point in benzene**
Tari O., YURTSEVEN H. H.
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- LI. **Calculation of the Raman and IR frequencies from the volume data at high pressures in N-2**
AKAY Ö., YURTSEVEN H. H.
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- LII. **Calculation of the thermodynamic quantities from the Raman frequency shifts and the Pippard relations for the alpha, -alpha and alpha ' phases of oxygen**
Tari O., YURTSEVEN H. H.
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- LIII. **ANALYSIS OF THE INTEGRATED INTENSITY OF THE CENTRAL PEAKS CALCULATED AS A FUNCTION OF TEMPERATURE IN THE FERROELECTRIC PHASE OF LITHIUM TANTALATE**
Kiraci A., Yurtseven H. H.
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- LIV. **Calculation of the P-T phase diagram of nitrogen using a mean field model**
Enginer Y., Algul G., YURTSEVEN H. H.
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- LV. **Analysis of Magnetization as a Function of Temperature for CoMn_{1-x}Fe (x) Ge**
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- LVI. **Calculation of the Spontaneous Polarization and the Dielectric Constant for the Ferroelectric N(CH₃)₄HSO₄ Using the Mean Field Model**
YURTSEVEN H. H., ÇELİK M., KARACALI H.
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- LVII. **Pressure dependence of the heat capacity near the melting point in benzene**
YURTSEVEN H. H., Tari O.
JOURNAL OF MOLECULAR LIQUIDS, cilt.241, ss.59-63, 2017 (SCI-Expanded)
- LVIII. **Calculation of the tilt angle and susceptibility for the alpha-beta transition in quartz using a mean field model**
YURTSEVEN H. H., Ipekoglu U., Ates S.
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- LIX. **Analysis of the susceptibility of condensed oxygen under high pressures and in strong magnetic fields**
Doğan E., YURTSEVEN H. H.
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- LX. **Analysis of the Magnetic Susceptibility as a Function of Temperature for the alpha, beta and gamma Phases of Oxygen**
YURTSEVEN H. H., Avci C.
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- LXI. **Temperature dependence of the damping constant and the relaxation time close to the tetragonal-cubic phase transition in SrZrO₃**
YURTSEVEN H. H., Kiraci A.
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- LXII. **Raman frequencies calculated as functions of temperature and pressure using volume data for solid phase I of benzene**

- YURTSEVEN H. H., Ozdemir H.
OPTIK, cilt.144, ss.224-231, 2017 (SCI-Expanded)
- LXIII. **Calculation of the Raman frequency shifts for the alpha phase of solid oxygen**
YURTSEVEN H. H., Tari O.
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- LXIV. **Analysis of vibrational spectra in relation to the thermodynamic quantities close to the phase transitions in ammonium halides (NH₄F and NH₄I)**
Tari O., YURTSEVEN H. H.
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- LXV. **Pressure dependence of the Raman frequency calculated from the volume data close to the ferroelectric-paraelectric transition in PbTiO₃**
YURTSEVEN H. H., KIRACI A.
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- LXVI. **Temperature dependence of the polarization, dielectric constant, damping constant and the relaxation time close to the ferroelectric-paraelectric phase transition in LiNbO₃**
Kiraci A., YURTSEVEN H. H.
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- LXVII. **Calculation of the raman frequency, damping constant (Linewidth) and the relaxation time near the tetragonal-cubic transition in PbTiO₃**
KIRACI A., YURTSEVEN H. H.
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- LXVIII. **Damping Constant (Linewidth) and the Relaxation Time of the Brillouin LA Mode for the Ferroelectric-Paraelectric Transition in PbZr_{1-x}Ti_xO₃**
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- LXIX. **Variation of the molar volume with the temperature and the Pippard relations near the melting point in benzene**
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- LXX. **Temperature and pressure dependence of the Raman frequency shifts in anthracene**
Ozdemir H., YURTSEVEN H. H.
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- LXXI. **Analysis of the Heat Capacity for Pure CH₄ and CH₄/CCl₄ on Graphite Near the Melting Point and Calculation of the T-X Phase Diagram for(CH₃)CCl₃+CCl₄**
YURTSEVEN H. H., Yilmaz A.
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- LXXII. **Analysis of the orientational order parameter and the magnetic field as functions of temperature for p-anisaldazine**
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- LXXIII. **Temperature effect on the structural ferroelectric - paraelectric transition in Li₂Ge₇O₁₅**
YURTSEVEN H. H., Tari O.
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- LXXIV. **Molar volume calculated at various pressures and the Pippard relations close to the melting point in benzene**
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- LXXV. **Analysis of the peak position and linewidth as a function of temperature for the phase transitions in LiKSO₄**
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- LXXVI. **Analysis of the dielectric constant, spontaneous polarization and the coersive field close to the phase transitions in ferroelectric K₂CoCl₄**
YURTSEVEN H. H., Doğan E.
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- LXXVII. **Calculation of the soft-mode frequency for the alpha - beta transition in quartz**
YURTSEVEN H. H., Tari O.
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- LXXVIII. **Pressure effect on the cholesteric - smectic A transition in cholesteryl myristate**
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- LXXIX. **Damping constant and the relaxation time calculated for the lowest-frequency soft mode in the ferroelectric phase of Cd₂Nb₂O₇**
Kiraci A., YURTSEVEN H. H.
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- LXXX. **Calculation of the spontaneous polarization for Pb_{1-x}CaxTiO₃ close to the tricritical point**
Tari O., YURTSEVEN H. H.
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- LXXXI. **Temperature and pressure dependence of the Raman intensity and frequency of a soft mode near the tricritical point in the ferroelectric SbSI**
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