

1. Record Nr.	UNINA9910437768203321
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Titolo	How to Gain Gain : A Reference Book on Triodes in Audio Pre-Amps / / by Burkhard Vogel
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-33033-9
Edizione	[2nd ed. 2013.]
Descrizione fisica	1 online resource (849 p.)
Disciplina	621.3815
Soggetti	Electronics Microelectronics Acoustics Acoustical engineering Electronics and Microelectronics, Instrumentation Engineering Acoustics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface Second Edition; Preface First Edition; Overview; Part I Essentials; 1 Basics; 1.1...Introduction; 1.2...The Triode Equation; 1.3...Triode Capacitances; 1.4...The Main Gain Stage Parameters of the Simplest Triode Gain Stage; 1.5...The Gain Stage Transfer Function; 1.6... Summary; 2 Noise in Triodes; 2.1...Introduction; 2.2...The Noise Voltage and Noise Resistance of Triodes; 2.2.1 The Schottky Equation and the Space Charge Reduction Factor; 2.2.2 The Triode Accuracy Control Factor sigma; 2.2.3 The Equivalent Circuit of an Ideal Triode's Noise Situation; 2.2.4 The Equivalent Noise Four-Port of the Triode 2.2.5 The Equivalent Triode Noise Voltage 2.3...The Frequency Dependency of the Triode Noise Voltage; 2.3.1 The 1/f-Noise Corner Frequency and its Determination by Measurement and Graph; 2.3.2 The Noise Voltage Correction Factor; 2.3.3 The Frequency Dependent Equation of the Triode Noise Voltage; 2.3.4 Noise Voltage Dependency on the Triode's Mutual Conductance; 2.3.5 Determination of the 1/f- Noise Corner Frequency by Math; 2.3.6 The Determination of the Triode Constants gm, ra, and mu; 2.3.6.1 Exact Approach; 2.3.6.2

Approximate Approach

2.3.6.3 Appeal to the Valve Manufacturing Industry for More Truth on the Table
3 Noise in Components and Other General Noise Effects; 3.1... Introduction; 3.2...Signal-to-Noise (SN) Ratio Calculations; 3.3...The A-weighting Calculation Approach; 3.4...Output Referred SNs; 3.5...From Output to Input Referred SNs and Vice Versa; 3.6...Noise of Passive Components and Resistance Excess Noise; 3.6.1 Resistor Thermal Noise; 3.6.2 Resistor Excess Noise; 3.6.3 Special Case: Cathode Resistance Noise; 3.6.4 SN Worsening Factor and Figure; 3.7...Noise Model of a Triode Common Cathode Gain Stage (CCS)
3.8...Input Load Alternatives
3.8.1 Purely Resistive Input Load R_0 ; 3.8.2 Noise Voltage of a Preceding Gain Stage with Output Resistance R_0 less than 1 Ω ; 3.8.3 Noise Voltage of a Preceding Gain Stage with Output Resistance R_0 less than 1 Ω and Additional Output Resistor R_0 greater than 1 Ω ; 3.8.4 Noise Voltage of a Preceding Gain Stage with Output Resistance R_0 greater than 1 Ω and Additional Output Resistor R_0 greater than 1 Ω ; 3.8.5 Input Load with Resistor, Inductance, and Capacitance (MM cartridge case); 3.8.6 Input Shorted; 3.8.7 Sum of the Gain Stage Input Noise Voltage
3.9...The Noise Factor and Noise Figure of an Amplifier
3.10...General Remarks on the Mathcad Example Calculations; 3.10.1 Bias and Other Operational Values; 3.10.2 Values for Graphical Representations; 3.10.3 SN Calculation Approaches; Part II Operations with Singletons; 4 The Common Cathode Gain Stage (CCS); 4.1...Circuit Diagram; 4.2...The CCSu: Basic Formulae; 4.2.1 The Idle Gain $G_{0,u}$ (Output Un-loaded); 4.2.2 The Output Load Dependent Gain $G_u(R_L)$; 4.2.3 The Operating Gain $G_{ops,u}$ (Output Loaded); 4.2.4 The Input Resistance R_i , Input Capacitance $C_{i,u}$, and Input Impedance $Z_{i,u}(f)$; 4.2.5 The Anode Output Resistance $R_{o,a,u}$ and Output Impedance $Z_{o,a,u}(f)$

Sommario/riassunto

The 34 chapters of the 2nd edition of How to Gain Gain give a detailed insight into a collection (54) of the most common gain producing, constant current generating possibilities, and electronic noise creation of triodes for audio pre-amplifier purposes. These chapters also offer complete sets of formulae to calculate gain, frequency and phase responses, and signal-to-noise ratios of certain building blocks built-up with this type of vacuum valve (tube). In all cases detailed derivations of the gain formulae are also presented. All what is needed are the data sheet valve characteristic figures of the triode's mutual conductance, the gain factor and the internal plate (anode) resistance. To calculate frequency and phase responses of gain stages the different data sheet based input and output capacitances have to be taken into account too. To calculate transfer functions and signal-to-noise ratios for any kind of triode driven gain stage, including all its bias setting, frequency, phase, and electronic noise influencing components, example Mathcad 11 worksheets as an essential simulation tool for each chapter allow easy follow-up and application of the respective formulae. Free download of all worksheets is guaranteed from the editor's web-site.

2. Record Nr.	UNINA9910150353503321
Autore	Alpes Maybritt Jill
Titolo	Brokering high-risk migration and illegality in West Africa : abroad at any cost / / Maybritt Jill Alpes
Pubbl/distr/stampa	New York, NY : , : Routledge, , 2016
ISBN	1-317-18603-6 1-315-56543-9 1-4724-4111-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (255 pages) : illustrations, photographs, tables, graphs
Collana	Studies in Migration and Diaspora
Disciplina	364.1/37096711
Soggetti	Human smuggling - Cameroon Cameroon Emigration and immigration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Why aspiring migrants give money to migration brokers -- 2. Why migration brokers can survive failures -- 3. What it takes to get a visa -- 4. How to secure marriage at the consulate -- 5. Why deportations do not work.
Sommario/riassunto	Do young West Africans want to go abroad at any cost because they receive too little or erroneous information? Why do they and their families risk large sums of money with migration brokers? How do the risks of illegality and deportation change migration aspirations in West Africa? This book places trafficking and smuggling within a wider framework of high-risk migration and proposes a novel interpretation of how people manage unwanted and uncertain migration outcomes. Drawing on in-depth ethnographic research with aspiring and failed migrants, their families, migration brokers and consulate offices in anglophone Cameroon, the author analyses high-risk migration from the vantage point of people in a place of departure. Brokering High-Risk Migration and Illegality in West Africa: Abroad at Any Cost develops a critical socio-legal approach to the governance of migration that sees the state without seeing like the state'. The state's monopoly over legitimate means of mobility is continuously in the making-frequently through accusations of fraud and criminality. By revealing

how authority, legality and legitimacy operate in a country of origin, the analysis contributes original insights into processes that create the conditions for illegality and migrant exploitation. The book will appeal to those in the fields of migration and development, African studies, gender, anthropology, sociology, criminology and law.
